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TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEx enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 20	EVENTLINE will be removed from STN
NEWS	28	Mar 24	PATDPAFULL now available on STN
NEWS	29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	30	Apr 11	Display formats in DGENE enhanced
NEWS	31	Apr 14	MEDLINE Reload
NEWS	32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	33	Jun 13	Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS	34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	35	Apr 28	RDISCLOSURE now available on STN
NEWS	36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	39	May 16	CHEMREACT will be removed from STN
NEWS	40	May 19	Simultaneous left and right truncation added to WSCA

NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation  
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB  
NEWS 43 Jun 06 PASCAL enhanced with additional data  
NEWS 44 Jun 20 2003 edition of the FSTA Thesaurus is now available  
  
NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:28:41 ON 21 JUN 2003

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:28:51 ON 21 JUN 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 JUN 2003 HIGHEST RN 534773-28-9

DICTIONARY FILE UPDATES: 20 JUN 2003 HIGHEST RN 534773-28-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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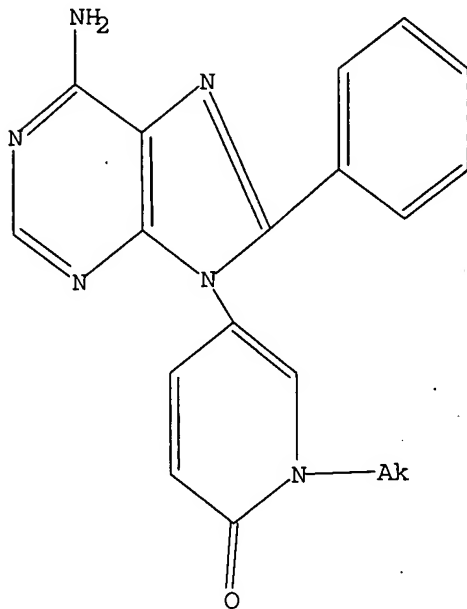
Uploading 10018688.1

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:29:11 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1 TO 80

PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 13:29:18 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 50 TO ITERATE

100.0% PROCESSED 50 ITERATIONS

25 ANSWERS

SEARCH TIME: 00.00.01

L3 25 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

Patel

<6/21/2003>

	ENTRY	SESSION
FULL ESTIMATED COST	148.15	148.36

FILE 'CAPLUS' ENTERED AT 13:29:24 ON 21 JUN 2003  
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FILE COVERS 1907 - 21 Jun 2003 VOL 138 ISS 26  
FILE LAST UPDATED: 20 Jun 2003 (20030620/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 1 L3

=> d l4 fbib hitstr abs total

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 2001:31502 CAPLUS

DN 134:100881

TI Preparation of fused imidazole compounds and remedies for diabetes mellitus

IN Asano, Osamu; Harada, Hitoshi; Yoshikawa, Seiji; Watanabe, Nobuhisa; Inoue, Takashi; Horizoe, Tatsuo; Yasuda, Nobuyuki; Oohashi, Kaya; Minami, Hiroe; Nagaoka, Junsaku; Murakami, Manabu; Kobayashi, Seiichi; Tanaka, Isao; Kawata, Tsutomu; Shimomura, Naoyuki; Akamatsu, Hirofumi; Ozeki, Naoki; Shimizu, Toshikazu; Hayashi, Kenji; Haga, Toyokazu; Negi, Shigeto; Naito, Toshihiko

PA Eisai Co., Ltd., Japan

SO PCT Int. Appl., 130 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001002400	A1	20010111	WO 2000-JP4358	20000630
	W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				JP 1999-188484 A	19990702
				JP 2000-143495 A	20000516
				JP 2000-182786 A	20000619
	AU 2000055717	A5	20010122	AU 2000-55717	20000630

JP 1999-188484 A 19990702  
JP 2000-143495 A 20000516  
JP 2000-182786 A 20000619  
WO 2000-JP4358 W 20000630  
EP 1221444 A1 20020710 EP 2000-940909 20000630  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI, CY

JP 1999-188484 A 19990702  
JP 2000-143495 A 20000516  
JP 2000-182786 A 20000619  
WO 2000-JP4358 W 20000630

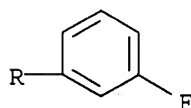
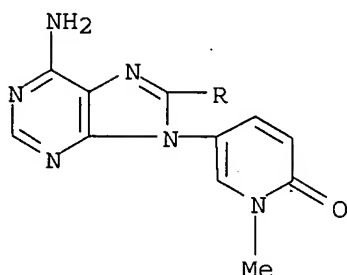
OS MARPAT 134:100881

IT 318468-14-3P 318468-15-4P 318468-21-2P  
318468-44-9P 318468-45-0P 318468-46-1P  
318468-48-3P 318468-49-4P 318468-50-7P  
318468-51-8P 318468-52-9P 318468-53-0P  
318468-56-3P 318468-57-4P 318468-58-5P  
318468-59-6P 318468-60-9P 318468-61-0P  
318468-62-1P 318468-63-2P 318468-64-3P  
318468-65-4P 318468-72-3P 318468-96-1P  
318468-97-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of fused imidazole compds. as antagonists of adenosine A2 receptors and remedies for diabetes mellitus)

RN 318468-14-3 CAPLUS

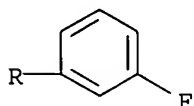
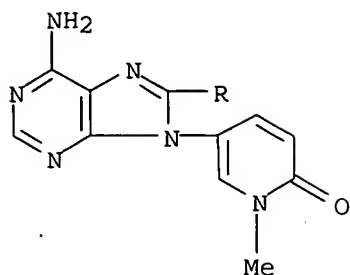
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

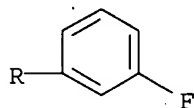
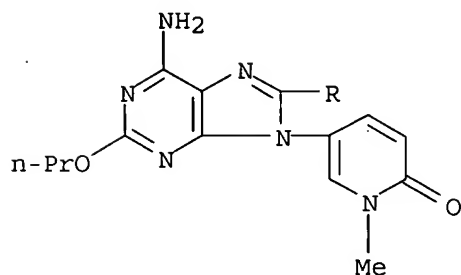
RN 318468-15-4 CAPLUS

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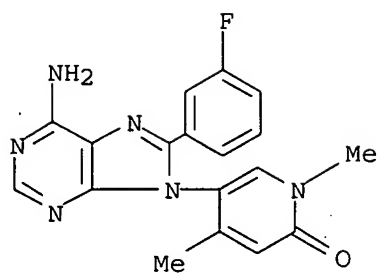
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-propoxy-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-44-9 CAPLUS

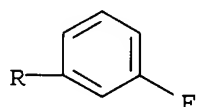
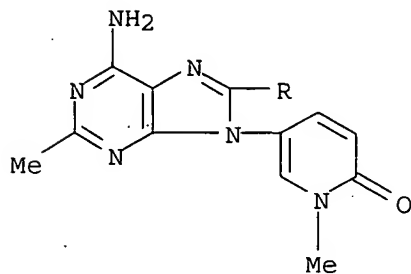
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1,4-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-45-0 CAPLUS

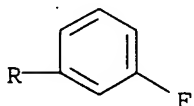
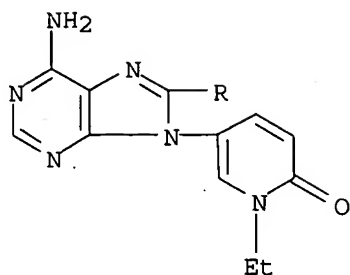
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-methyl-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-46-1 CAPLUS

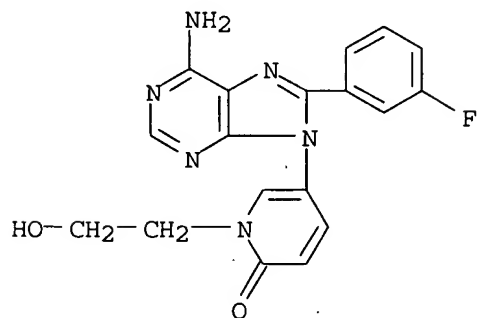
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-ethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

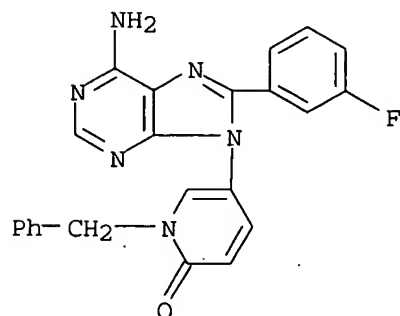
RN 318468-48-3 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



RN 318468-49-4 CAPLUS

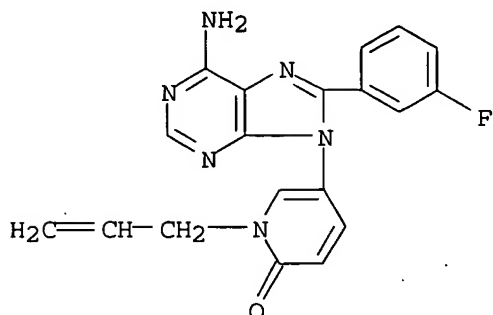
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-(phenylmethyl)- (9CI) (CA INDEX NAME)





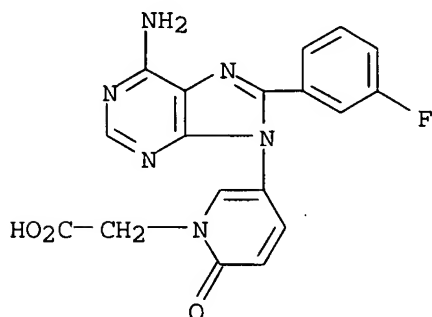
RN 318468-50-7 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-(2-propenyl)- (9CI) (CA INDEX NAME)



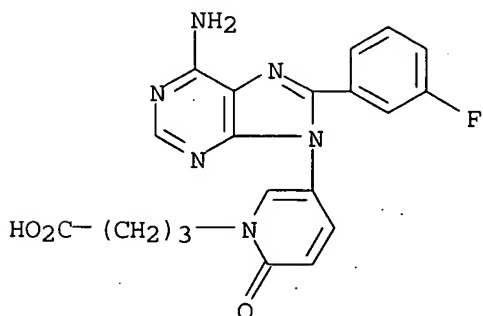
RN 318468-51-8 CAPLUS

CN 1(2H)-Pyridineacetic acid, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-2-oxo- (9CI) (CA INDEX NAME)



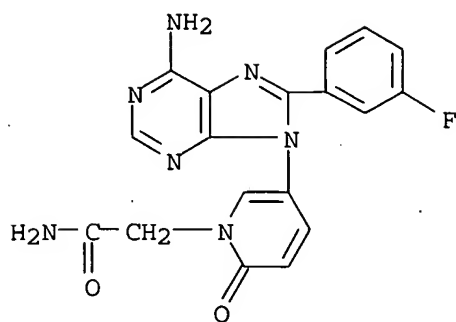
RN 318468-52-9 CAPLUS

CN 1(2H)-Pyridinebutanoic acid, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-2-oxo- (9CI) (CA INDEX NAME)

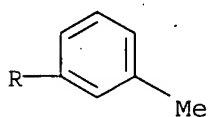
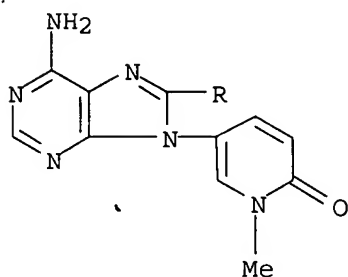


RN 318468-53-0 CAPLUS

CN 1(2H)-Pyridineacetamide, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-2-oxo- (9CI) (CA INDEX NAME)



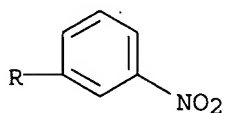
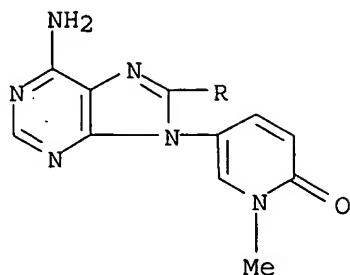
RN 318468-56-3 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-methylphenyl)-9H-purin-9-yl]-1-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RN 318468-57-4 CAPLUS

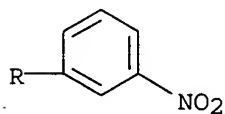
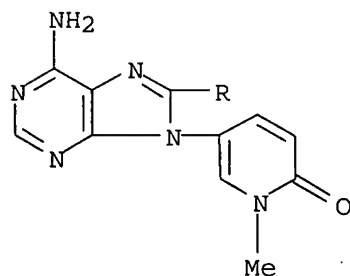
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-nitrophenyl)-9H-purin-9-yl]-1-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

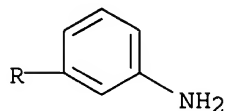
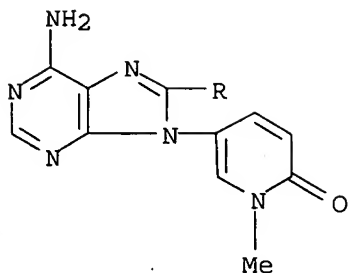
RN 318468-58-5 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-nitrophenyl)-9H-purin-9-yl]-1-methyl-  
(9CI) (CA INDEX NAME)



RN 318468-59-6 CAPLUS

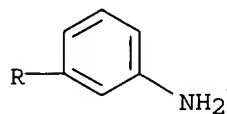
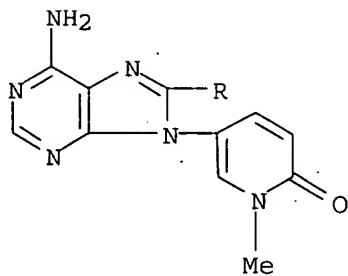
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-aminophenyl)-9H-purin-9-yl]-1-methyl-,  
dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

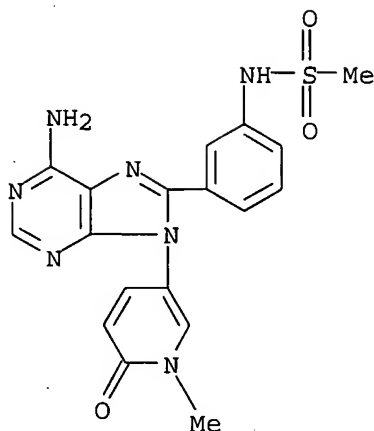
RN 318468-60-9 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-aminophenyl)-9H-purin-9-yl]-1-methyl-  
(9CI) (CA INDEX NAME)



RN 318468-61-0 CAPLUS

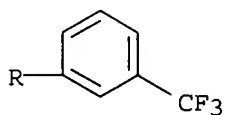
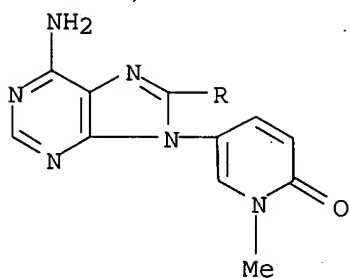
CN Methanesulfonamide, N-[3-[6-amino-9-(1,6-dihydro-1-methyl-6-oxo-3-pyridinyl)-9H-purin-8-yl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-62-1 CAPLUS

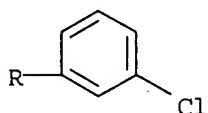
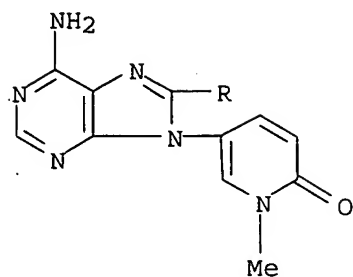
CN 2(1H)-Pyridinone, 5-[6-amino-8-[3-(trifluoromethyl)phenyl]-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-63-2 CAPLUS

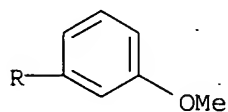
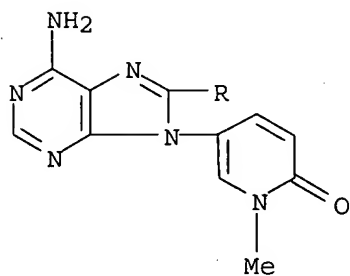
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-chlorophenyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-64-3 CAPLUS

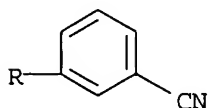
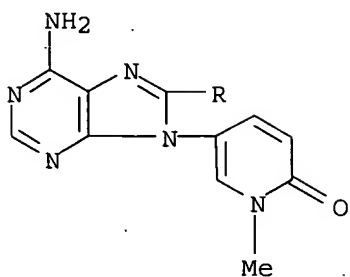
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-methoxyphenyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-65-4 CAPLUS

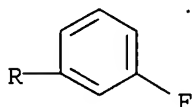
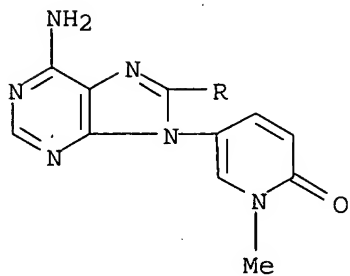
CN Benzonitrile, 3-[6-amino-9-(1,6-dihydro-1-methyl-6-oxo-3-pyridinyl)-9H-purin-8-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-72-3 CAPLUS

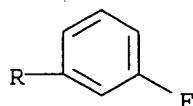
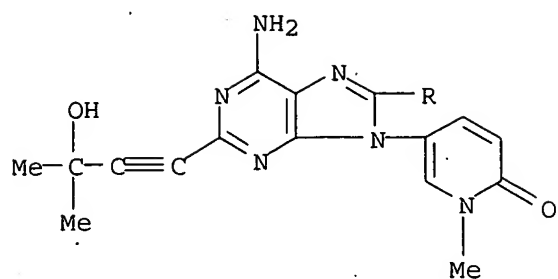
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-, dihydrate (9CI) (CA INDEX NAME)



● 2 H<sub>2</sub>O

RN 318468-96-1 CAPLUS

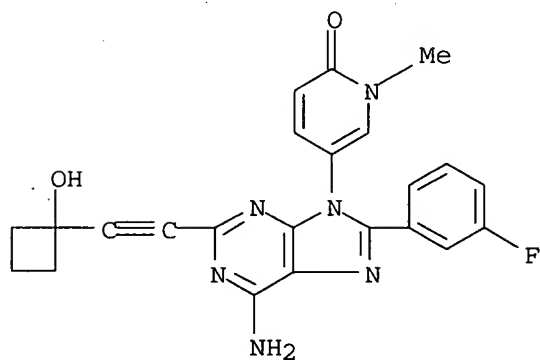
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-(3-hydroxy-3-methyl-1-butynyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-97-2 CAPLUS

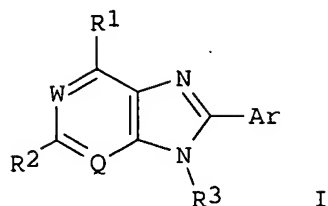
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclobutyl)ethynyl]-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

GI





AB Novel fused imidazole compds. such as purine derivs. of general formula (I), pharmacol. acceptable salts thereof, or hydrates of both [wherein R1 = H, OH, halo, (un)substituted C1-8 alkyl, (un)substituted NH2; R2 = H, halo, (un)substituted NH2, (un)substituted C2-8 alkenyl, (un)substituted C3-8 alkynyl, (un)substituted C1-8 alkyl; R3 = (un)substituted C3-8 alkynyl, C3-8 alkenyl, (un)substituted C1-8 alkyl, (un)substituted aryl, (un)substituted heteroaryl, etc.; Ar = (un)substituted aryl, (un)substituted heteroaryl, optionally halo- or C1-6 alkyl-substituted N-C1-6 alkyl- or N-C3-6 cycloalkyl-oxopyridyl or -oxopyrimidyl; Q, W = N, CH; some proviso are given] are prepd. These compds. exhibit adenosine A2 receptor antagonism and are effective in the prevention and treatment of diabetes mellitus and complications of diabetes. Thus, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1,2-dihydro-2-pyridinone was condensed with N,N-dimethylformamide di-Me acetal in DMF at room temp. for 1 h, ice-cooled, treated with NaH at 0-6.degree. for 30 min, and methylated by Me iodide at room temp. for 16 h to give 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-1,2-dihydro-2-pyridinone (II). II.HCl at 10 mg/kg p.o. in spontaneously diabetic mice lowered the blood sugar level to 47.3+-.7.2% of the control animal.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d cost

COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
CONNECT CHARGES	0.68	1.17
NETWORK CHARGES	0.12	0.24
SEARCH CHARGES	0.00	147.75
DISPLAY CHARGES	4.32	4.32

	5.12	153.48
CAPLUS FEE (5%)	0.25	0.25

FULL ESTIMATED COST	5.37	153.73
---------------------	------	--------

	SINCE FILE ENTRY	TOTAL SESSION
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		
CA SUBSCRIBER PRICE	-0.65	-0.65

IN FILE 'CAPLUS' AT 13:30:49 ON 21 JUN 2003

Welcome to STN International! Enter x:x

LOGINID:sssptal611sxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
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NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
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NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEx enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 20	EVENTLINE will be removed from STN
NEWS	28	Mar 24	PATDPAFULL now available on STN
NEWS	29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	30	Apr 11	Display formats in DGENE enhanced
NEWS	31	Apr 14	MEDLINE Reload
NEWS	32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	33	Jun 13	Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS	34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	35	Apr 28	RDISCLOSURE now available on STN
NEWS	36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	38	May 15	Supporter information for ENCOMPAT and ENCOMPLIT updated
NEWS	39	May 16	CHEMREACT will be removed from STN
NEWS	40	May 19	Simultaneous left and right truncation added to WSCA

NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation  
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB  
NEWS 43 Jun 06 PASCAL enhanced with additional data  
NEWS 44 Jun 20 2003 edition of the FSTA Thesaurus is now available  
  
NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:37:37 ON 21 JUN 2003

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:37:47 ON 21 JUN 2003  
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STRUCTURE FILE UPDATES: 20 JUN 2003 HIGHEST RN 534773-28-9  
DICTIONARY FILE UPDATES: 20 JUN 2003 HIGHEST RN 534773-28-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

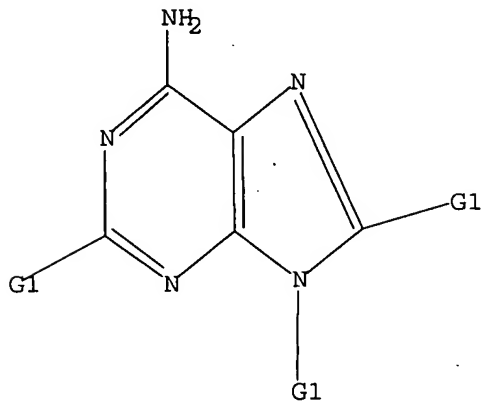
=>  
Uploading 10018688.3

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 Cb,Cy,Hy

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:38:05 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 4902 TO ITERATE

20.4% PROCESSED 1000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 93844 TO 102236

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 13:38:11 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 100017 TO ITERATE

100.0% PROCESSED 100017 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.05

L3 0 SEA SSS FUL L1

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

148.15

148.36

STN INTERNATIONAL LOGOFF AT 13:38:36 ON 21 JUN 2003



Welcome to STN International! Enter x:x

LOGINID:sssptal611sxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
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NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation  
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB  
NEWS 43 Jun 06 PASCAL enhanced with additional data  
NEWS 44 Jun 20 2003 edition of the FSTA Thesaurus is now available  
  
NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
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NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 13:43:39 ON 21 JUN 2003

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:43:49 ON 21 JUN 2003  
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STRUCTURE FILE UPDATES: 20 JUN 2003 HIGHEST RN 534773-28-9  
DICTIONARY FILE UPDATES: 20 JUN 2003 HIGHEST RN 534773-28-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

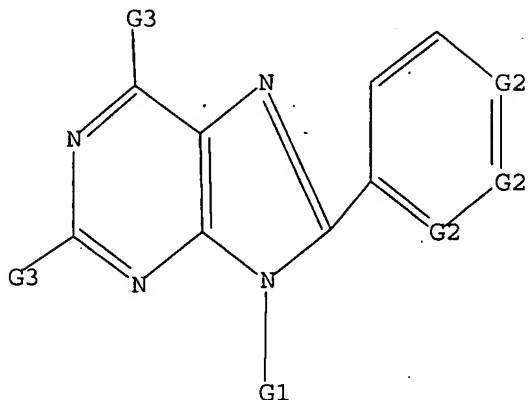
=>  
Uploading 10018688.4

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 Cb,Cy,Hy

G2 N,CH

G3 C,O,N,OH,NH2,X,Cb,Cy,Ak,H

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:44:11 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 259 TO ITERATE

100.0% PROCESSED 259 ITERATIONS

9 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 4215 TO 6145

PROJECTED ANSWERS: 9 TO 360

L2 9 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 13:44:19 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 5904 TO ITERATE

100.0% PROCESSED 5904 ITERATIONS

137 ANSWERS

SEARCH TIME: 00.00.01

L3 137 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

148.15

148.36



FILE 'CAPLUS' ENTERED AT 13:44:25 ON 21 JUN 2003  
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FILE COVERS 1907 - 21 Jun 2003 VOL 138 ISS 26  
FILE LAST UPDATED: 20 Jun 2003 (20030620/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

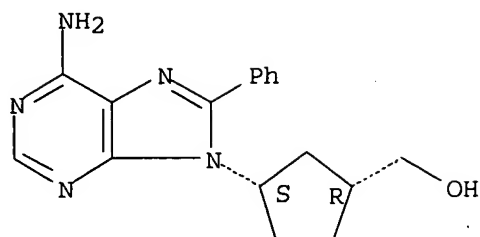
=> s 13

L4 19 L3

=> d 14 fbib hitstr abs total

L4 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2003 ACS  
AN 2003:3721 CAPLUS  
DN 138:338396  
TI Synthesis of novel 8-substituted carbocyclic analogs of  
2',3'-dideoxyadenosine with activity against hepatitis B virus  
AU Gudmundsson, Kristjan S.; Daluge, Susan M.; Condreay, Lynn D.; Johnson,  
Lance C.  
CS Division of Chemistry, GlaxoSmithKline, Research Triangle Park, NC, 27709,  
USA  
SO Nucleosides, Nucleotides & Nucleic Acids (2002), 21(11 & 12), 891-901  
CODEN: NNNAFY; ISSN: 1525-7770  
PB Marcel Dekker, Inc.  
DT Journal  
LA English  
IT 515826-78-5P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL  
(Biological study); PREP (Preparation)  
(synthesis of novel carbocyclic analogs of dideoxyadenosine with  
activity against hepatitis B virus)  
RN 515826-78-5 CAPLUS  
CN Cyclopentanemethanol, 3-(6-amino-8-phenyl-9H-purin-9-yl)-, (1R,3S)- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



IT 515826-72-9P

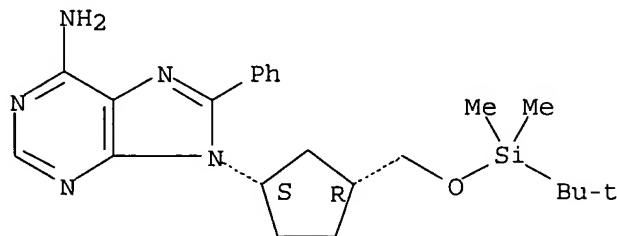
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis of novel carbocyclic analogs of dideoxyadenosine with activity against hepatitis B virus)

RN 515826-72-9 CAPLUS

CN 9H-Purin-6-amine, 9-[(1S,3R)-3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]cyclopentyl]-8-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Synthesis and antiviral activity of several new 8-substituted carbocyclic analogs of D-2',3'-dideoxyadenosine are described. The new 8-substituted analogs were synthesized via lithiation of carbocyclic 2',3'-dideoxyadenosine followed by quenching with electrophiles. This methodol. allows for a divergent synthesis of a variety of 8-substituted analogs from carbocyclic 2',3'-dideoxyadenosine in high yields. 8-Me and 8-halogenated carbocyclic 2',3'-dideoxyadenosine analogs showed 6-25 fold more activity against hepatitis B virus than the unsubstituted carbocyclic D-2',3'-dideoxyadenosine.

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 2001:667342 CAPLUS

DN 136:112192

TI 2-Alkynyl-8-aryladenines possessing an amide moiety: their synthesis and structure-activity relationships of effects on hepatic glucose production induced via agonism of the A2B adenosine receptor

AU Harada, H.; Asano, O.; Kawata, T.; Inoue, T.; Horizoe, T.; Yasuda, N.; Nagata, K.; Murakami, M.; Nagaoka, J.; Kobayashi, S.; Tanaka, I.; Abe, S.

CS Tsukuba Research Laboratories, Eisai Company, Ltd., Tsukuba, Ibaraki, 300-2635, Japan

SO Bioorganic & Medicinal Chemistry (2001), 9(10), 2709-2726  
CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier Science Ltd.

DT Journal

LA English

IT 232252-56-1P 232252-57-2P 391248-58-1P

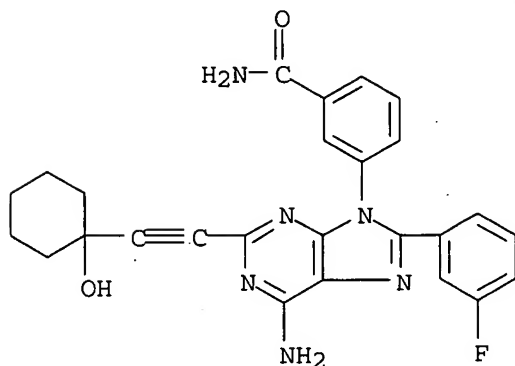
391248-59-2P 391248-60-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and structure activity of alkynylarylidenes as A2A adenosine receptor agonists and effects on hepatic glucose prodn.)

RN 232252-56-1 CAPLUS

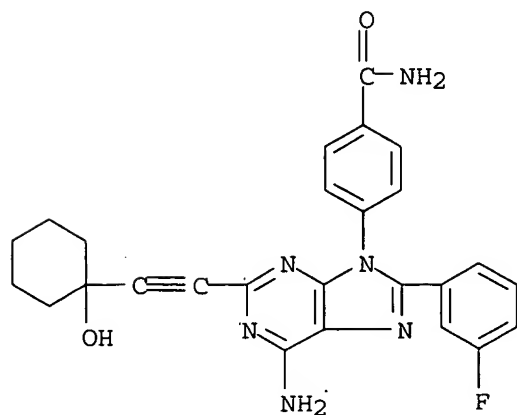
CN Benzamide, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 232252-57-2 CAPLUS

CN Benzamide, 4-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)

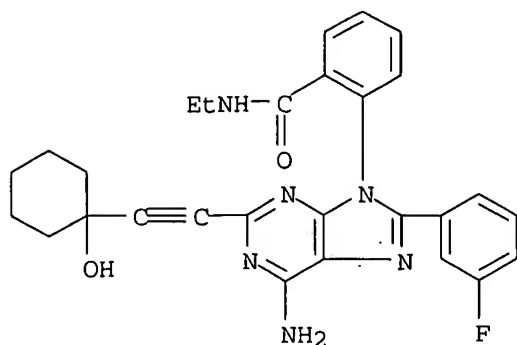


● HCl

RN 391248-58-1 CAPLUS

CN Benzamide, 2-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)

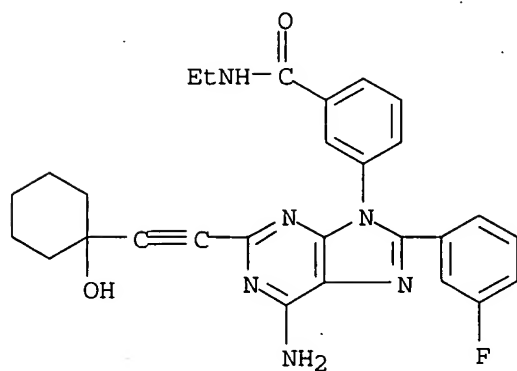
9H-purin-9-yl]-N-ethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 391248-59-2 CAPLUS

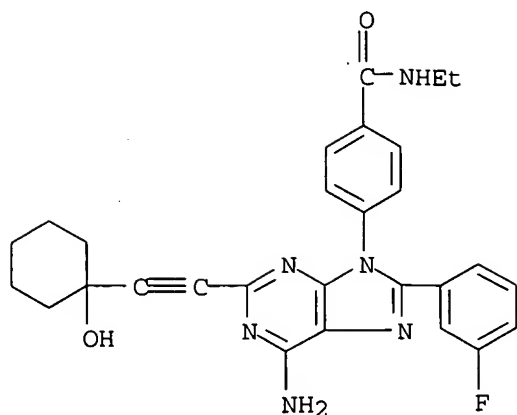
CN Benzamide, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-N-ethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 391248-60-5 CAPLUS

CN Benzamide, 4-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-N-ethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

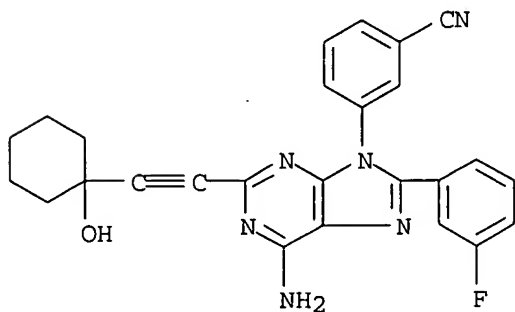
IT 232252-44-7P 232254-90-9P 232254-91-0P  
 232254-92-1P 391249-14-2P 391249-15-3P  
 391249-16-4P 391249-17-5P 391249-21-1P  
 391249-22-2P 391249-23-3P 391249-24-4P  
 391249-25-5P 391249-29-9P 391249-30-2P  
 391249-31-3P 391249-32-4P 391249-33-5P  
 391249-37-9P 391249-38-0P 391249-39-1P  
 391249-40-4P 391249-41-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and structure activity of alkynylaryladenines as A2A adenosine receptor agonists and effects on hepatic glucose prodn.)

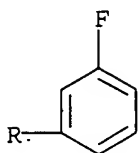
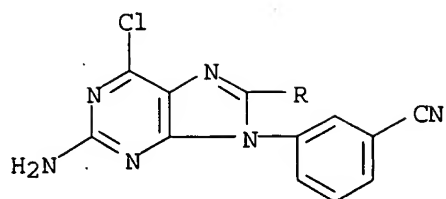
RN 232252-44-7 CAPLUS

CN Benzonitrile, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



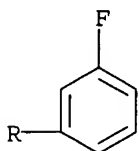
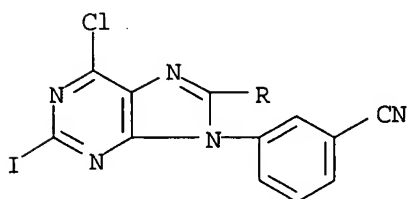
RN 232254-90-9 CAPLUS

CN Benzonitrile, 3-[2-amino-6-chloro-8-(3-fluorophenyl)-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



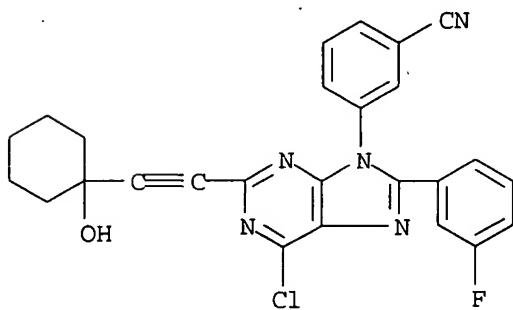
RN 232254-91-0 CAPLUS

CN Benzonitrile, 3-[6-chloro-8-(3-fluorophenyl)-2-iodo-9H-purin-9-yl] - (9CI)  
(CA INDEX NAME)



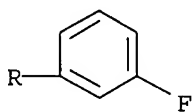
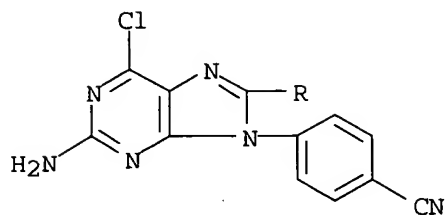
RN 232254-92-1 CAPLUS

CN Benzonitrile, 3-[6-chloro-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl] - (9CI) (CA INDEX NAME)



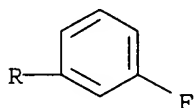
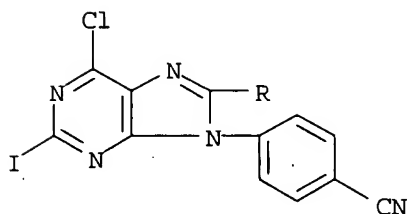
RN 391249-14-2 CAPLUS

CN Benzonitrile, 4-[2-amino-6-chloro-8-(3-fluorophenyl)-9H-purin-9-yl]- (9CI)  
(CA INDEX NAME)



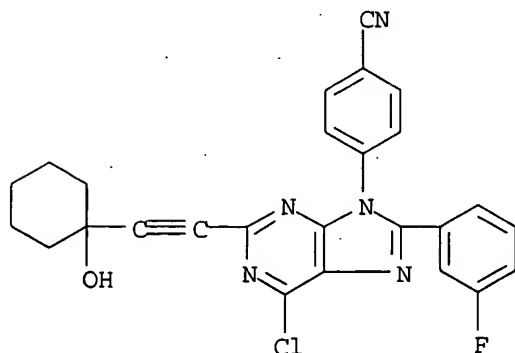
RN 391249-15-3 CAPLUS

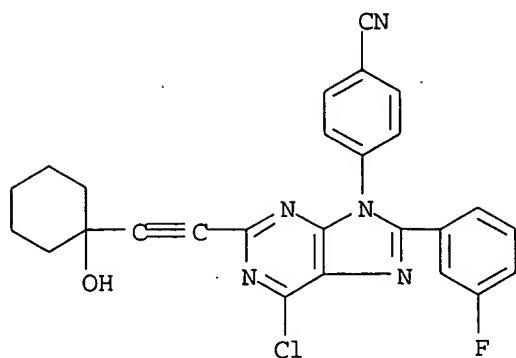
CN Benzonitrile, 4-[6-chloro-8-(3-fluorophenyl)-2-iodo-9H-purin-9-yl]- (9CI)  
(CA INDEX NAME)



RN 391249-16-4 CAPLUS

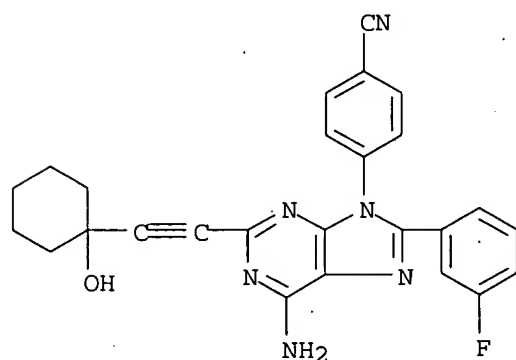
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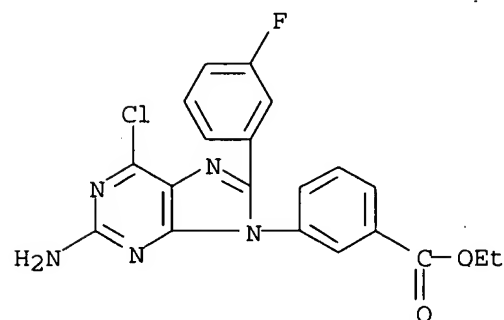
RN 391249-17-5 CAPLUS

CN Benzonitrile, 4-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



RN 391249-21-1 CAPLUS

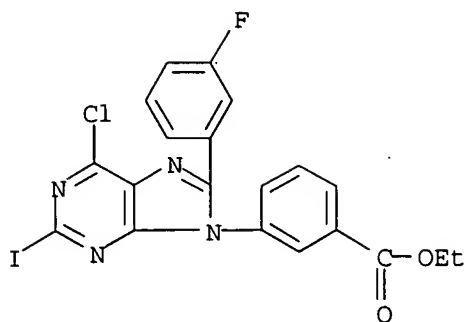
CN Benzoic acid, 3-[2-amino-6-chloro-8-(3-fluorophenyl)-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 391249-22-2 CAPLUS

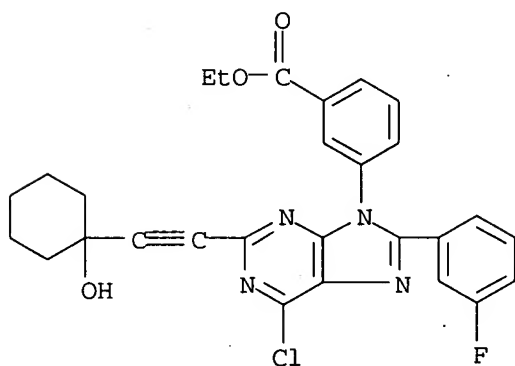
CN Benzoic acid, 3-[6-chloro-8-(3-fluorophenyl)-2-iodo-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)





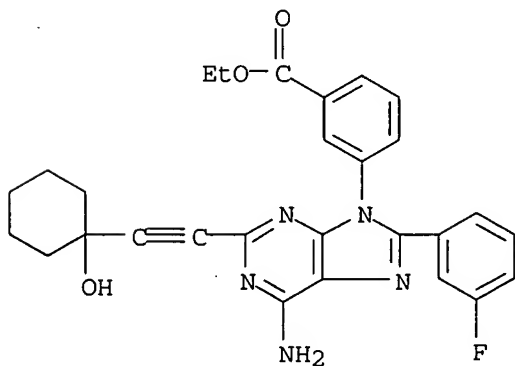
RN 391249-23-3 CAPLUS

CN Benzoic acid, 3-[6-chloro-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)



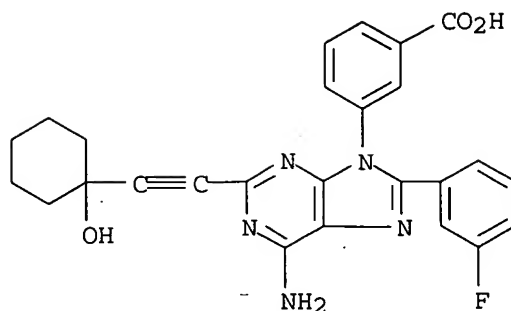
RN 391249-24-4 CAPLUS

CN Benzoic acid, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)



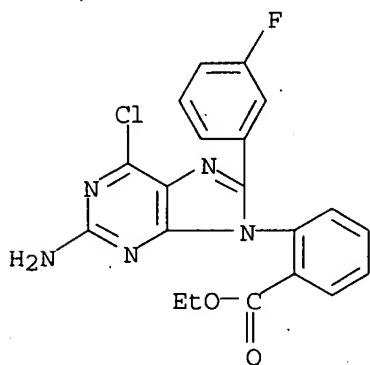
RN 391249-25-5 CAPLUS

CN Benzoic acid, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



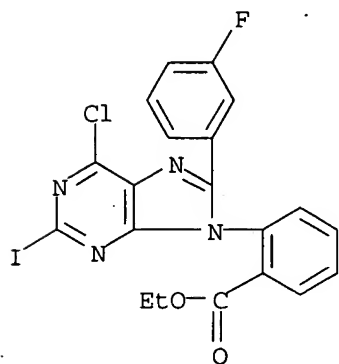
RN 391249-29-9 CAPLUS

CN Benzoic acid, 2-[2-amino-6-chloro-8-(3-fluorophenyl)-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 391249-30-2 CAPLUS

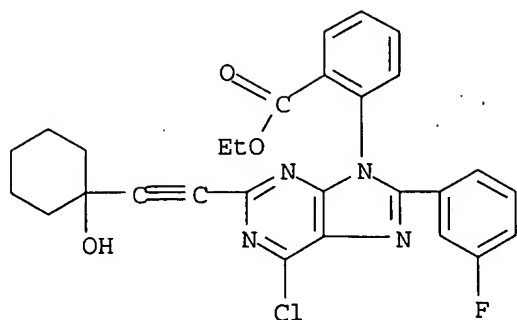
CN Benzoic acid, 2-[6-chloro-8-(3-fluorophenyl)-2-iodo-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 391249-31-3 CAPLUS

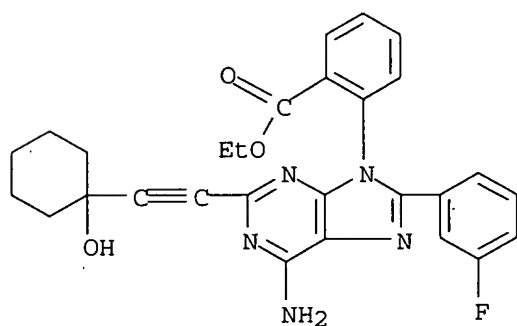
CN Benzoic acid, 2-[6-chloro-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)

(NAME)



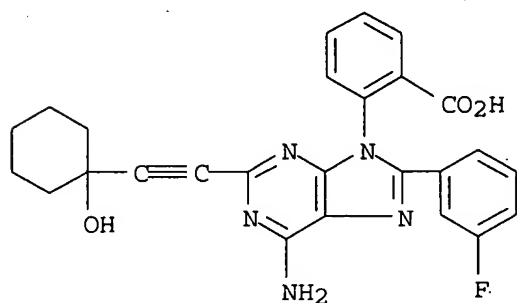
RN 391249-32-4 CAPLUS

CN Benzoic acid, 2-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)



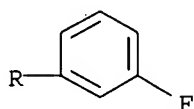
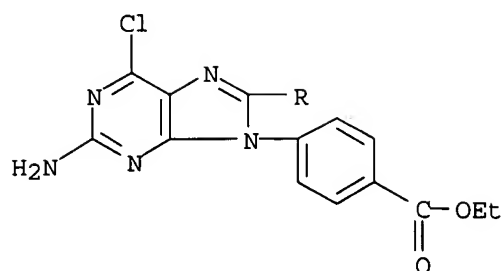
RN 391249-33-5 CAPLUS

CN Benzoic acid, 2-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



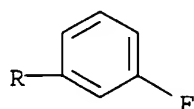
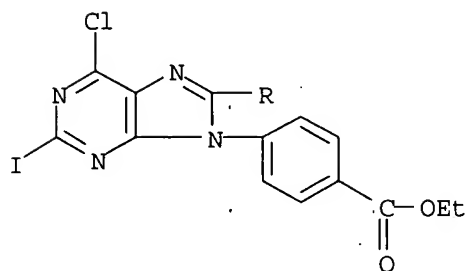
RN 391249-37-9 CAPLUS

CN Benzoic acid, 4-[2-amino-6-chloro-8-(3-fluorophenyl)-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)



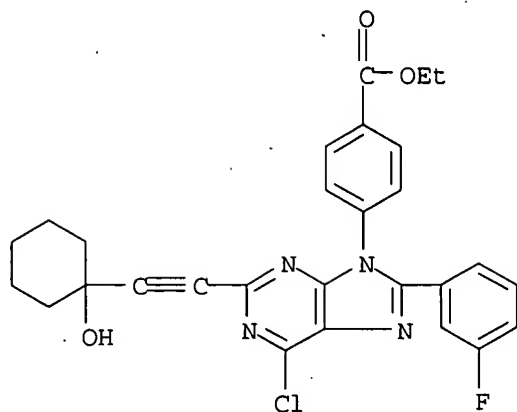
RN 391249-38-0 CAPLUS

CN Benzoic acid, 4-[6-chloro-8-(3-fluorophenyl)-2-iodo-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)



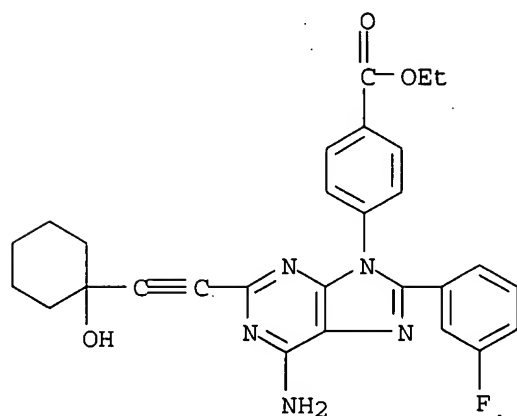
RN 391249-39-1 CAPLUS

CN Benzoic acid, 4-[6-chloro-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)



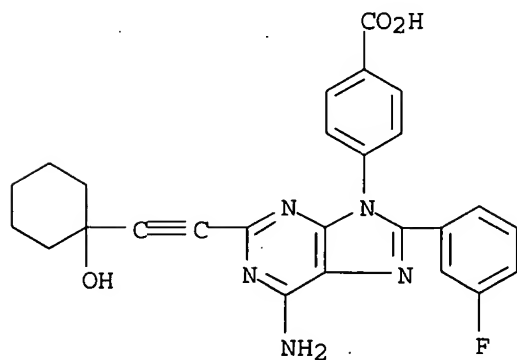
RN 391249-40-4 CAPLUS

CN Benzoic acid, 4-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, ethyl ester (9CI) (CA INDEX NAME)

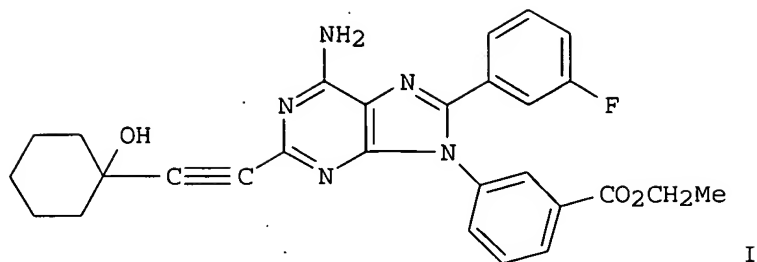


RN 391249-41-5 CAPLUS

CN Benzoic acid, 4-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



GI



AB A series of 2-alkynyl-8-aryl-adenine derivs. bearing an amide moiety at the 9-position of adenine was synthesized. These analogs were evaluated for inhibitory activity on N-ethylcarboxamidoadenosine (NECA)-induced glucose prodn. in primary cultured rat hepatocytes. The m-primary benzamide deriv. (I) was the most potent compd. ( $IC_{50}=0.017 \mu M$ ), being 15-fold more active than the corresponding 9-Me deriv. I showed 72- and 5.2-fold selectivity for human A2B receptor vs. human A1 and A2A receptors, resp. Structure-activity relation (SAR) studies of the synthesized compds. indicated that a three-carbon linker, fixed in the form of a benzene ring, between the adenine core and the amide moiety is important for both A2B antagonistic activity and selectivity. The  $IC_{50}$  values in rat hepatocyte glucose assay correlated well with the  $IC_{50}$  values in cAMP assay using Chinese hamster ovary cells stably transfected with human A2B receptors ( $r^2 = 0.94$ ). The A1 and A2A affinities showed no correlation with the potency to inhibit NECA-induced glucose prodn. These results strongly support the previous conclusion that adenosine agonist-induced hepatic glucose prodn. in rat hepatocytes is mediated through the A2B receptor.

RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 2001:400641 CAPLUS

DN 135:220646

TI Design of new selective inhibitors of cyclooxygenase-2 by dynamic assembly of molecular building blocks

AU Zhu, Jiang; Yu, Haibo; Fan, Hao; Liu, Haiyan; Shi, Yunyu

CS Laboratory of Structural Biology, School of Life Science, University of Science and Technology of China (USTC), Hefei, 230026, Peop. Rep. China

SO Journal of Computer-Aided Molecular Design (2001), 15(5), 447-463

CODEN: JCADEQ; ISSN: 0920-654X

PB Kluwer Academic Publishers

DT Journal

LA English

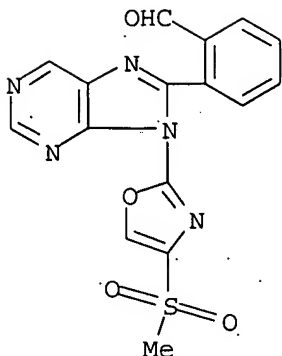
IT 359636-19-4

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(design of new selective inhibitors of cyclooxygenase-2 by dynamic assembly of mol. building blocks)

RN 359636-19-4 CAPLUS

CN Benzaldehyde, 2-[9-[4-(methylsulfonyl)-2-oxazolyl]-9H-purin-8-yl]- (9CI)  
(CA INDEX NAME)



AB A method of dynamically assembling mol. building blocks - DycoBlock - has been proposed and tested by Liu et al. [1]. This method is based on multiple-copy stochastic dynamics simulation in the presence of a receptor mol. In this method, a novel algorithm was used to dynamically assemble the mol. building blocks to form candidate compds. Currently, some new improvements have been incorporated into DycoBlock to make it more efficient. In the new version of DycoBlock, the binding energy and solvent accessible surface area (SASA) can be used to screen the resulting compds. A simple clustering algorithm based on mol. similarity was developed and used to classify the remaining compds. The revised DycoBlock was tested by breaking SC-558 - a selective inhibitor of cyclooxygenase-2 (COX-2) - into building blocks and reassembling them in the active site of the enzyme. The accuracy of recovery grew to 58.8% while it was only 16.7% in the previous version. Then, thirty-three kinds of mol. building blocks were used in the design of novel inhibitors and the investigation of diversity. As a result, a total of 1441 compds. was generated with high diversity. After the first screening procedure, there remained 864 reasonable compds. The results from clustering indicate that the structural motifs in the diarylheterocycle class of COX-2-selective inhibitors [2] have been generated using the revised DycoBlock, and their binding modes were investigated.

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 2001:31502 CAPLUS

DN 134:100881

TI Preparation of fused imidazole compounds and remedies for diabetes mellitus

IN Asano, Osamu; Harada, Hitoshi; Yoshikawa, Seiji; Watanabe, Nobuhisa; Inoue, Takashi; Horizoe, Tatsuo; Yasuda, Nobuyuki; Oohashi, Kaya; Minami, Hiroe; Nagaoka, Junsaku; Murakami, Manabu; Kobayashi, Seiichi; Tanaka, Isao; Kawata, Tsutomu; Shimomura, Naoyuki; Akamatsu, Hirofumi; Ozeki, Naoki; Shimizu, Toshikazu; Hayashi, Kenji; Haga, Toyokazu; Negi, Shigeto; Naito, Toshihiko

PA Eisai Co., Ltd., Japan

SO PCT Int. Appl., 130 pp.  
CODEN: PIXXD2

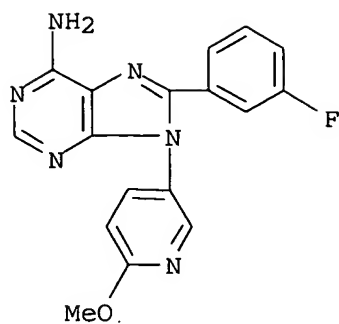
DT Patent

LA Japanese

FAN.CNT 1

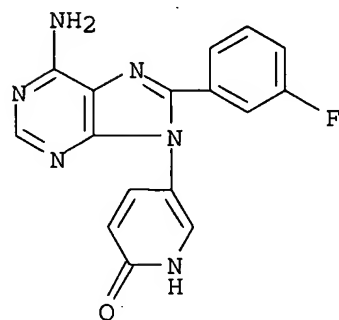
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PI	WO 2001002400	A1	20010111	WO 2000-JP4358	20000630
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	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				JP 1999-188484 A	19990702
				JP 2000-143495 A	20000516
				JP 2000-182786 A	20000619
	AU 2000055717	A5	20010122	AU 2000-55717	20000630
				JP 1999-188484 A	19990702
				JP 2000-143495 A	20000516
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				WO 2000-JP4358 W	20000630
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				JP 2000-182786 A	20000619
				WO 2000-JP4358 W	20000630
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IT	318468-06-3P 318468-10-9P 318468-11-0P				
	318468-12-1P 318468-13-2P 318468-14-3P				
	318468-15-4P 318468-16-5P 318468-17-6P				
	318468-21-2P 318468-22-3P 318468-23-4P				
	318468-24-5P 318468-35-8P 318468-44-9P				
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	318469-03-3P				
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(prepn. of fused imidazole compds. as antagonists of adenosine A2 receptors and remedies for diabetes mellitus)				
RN	318468-06-3 CAPLUS				
CN	9H-Purin-6-amine, 8-(3-fluorophenyl)-9-(6-methoxy-3-pyridinyl)- (9CI) (CA INDEX NAME)				





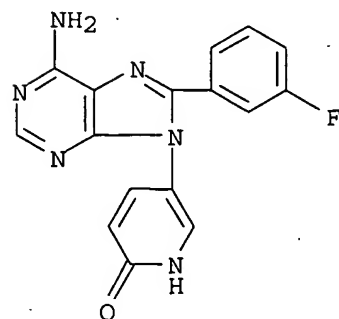
RN 318468-10-9 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



RN 318468-11-0 CAPLUS

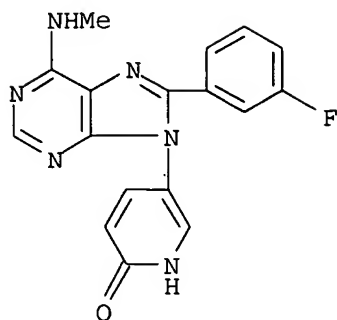
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



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RN 318468-12-1 CAPLUS

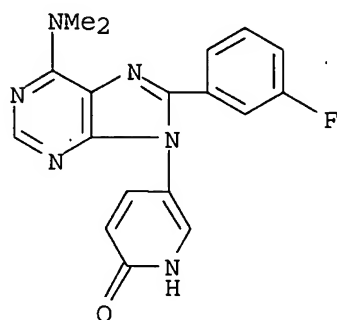
CN 2(1H)-Pyridinone, 5-[8-(3-fluorophenyl)-6-(methylamino)-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-13-2 CAPLUS

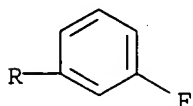
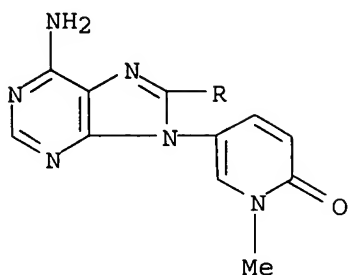
CN 2(1H)-Pyridinone, 5-[6-(dimethylamino)-8-(3-fluorophenyl)-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-14-3 CAPLUS

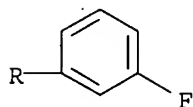
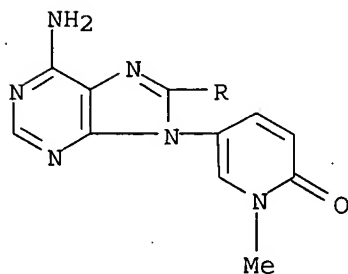
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

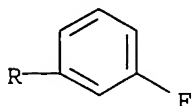
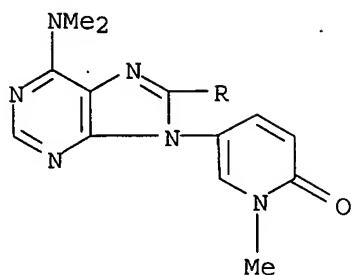
RN 318468-15-4 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-  
(9CI) (CA INDEX NAME)



RN 318468-16-5 CAPLUS

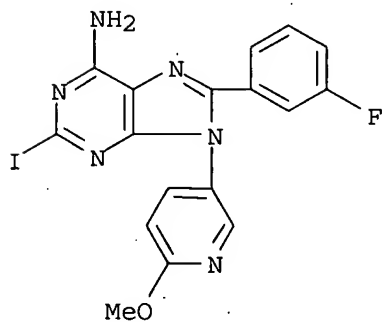
CN 2(1H)-Pyridinone, 5-[6-(dimethylamino)-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

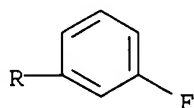
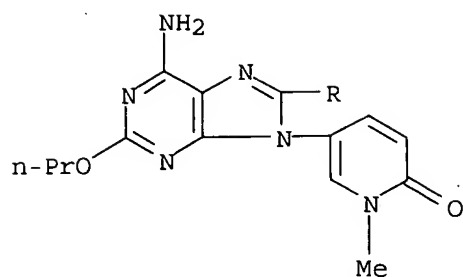
RN 318468-17-6 CAPLUS

CN 9H-Purin-6-amine, 8-(3-fluorophenyl)-2-iodo-9-(6-methoxy-3-pyridinyl)-  
(9CI) (CA INDEX NAME)



RN 318468-21-2 CAPLUS

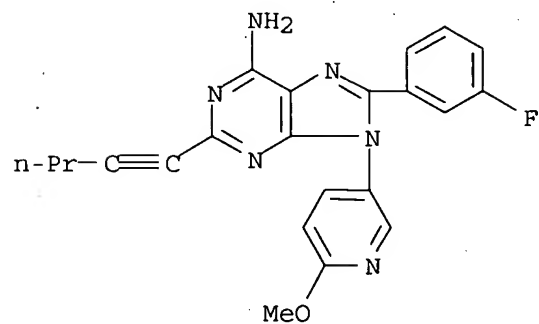
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-propoxy-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

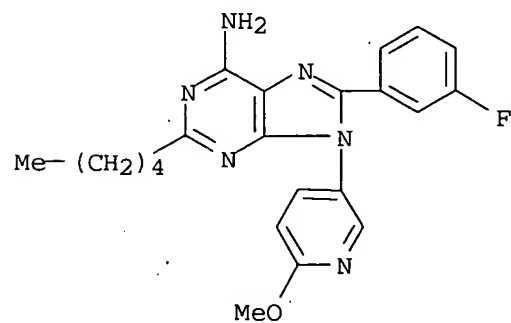
RN 318468-22-3 CAPLUS

CN 9H-Purin-6-amine, 8-(3-fluorophenyl)-9-(6-methoxy-3-pyridinyl)-2-(1-pentynyl)- (9CI) (CA INDEX NAME)



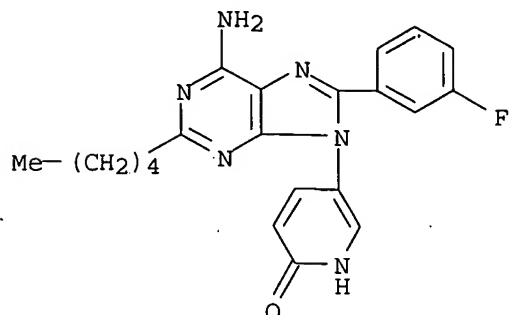
RN 318468-23-4 CAPLUS

CN 9H-Purin-6-amine, 8-(3-fluorophenyl)-9-(6-methoxy-3-pyridinyl)-2-pentyl- (9CI) (CA INDEX NAME)



RN 318468-24-5 CAPLUS

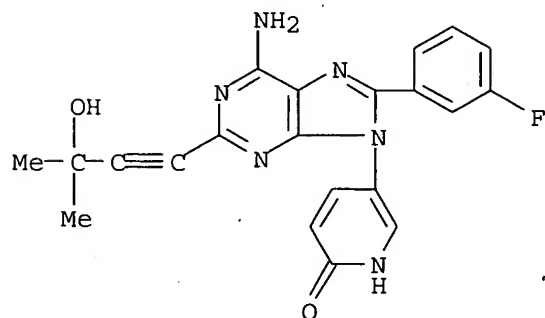
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-pentyl-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-35-8 CAPLUS

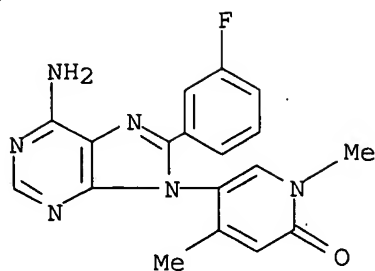
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-(3-hydroxy-3-methyl-1-butynyl)-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-44-9 CAPLUS

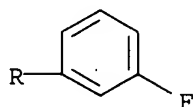
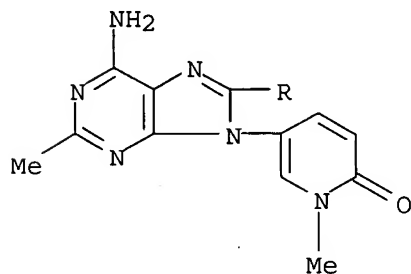
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1,4-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-45-0 CAPLUS

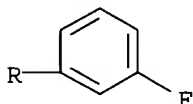
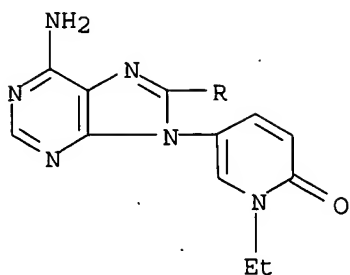
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-methyl-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-46-1 CAPLUS

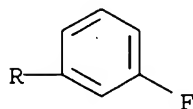
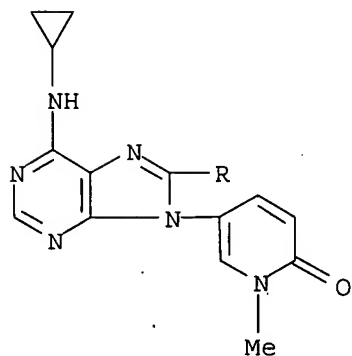
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-ethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-47-2 CAPLUS

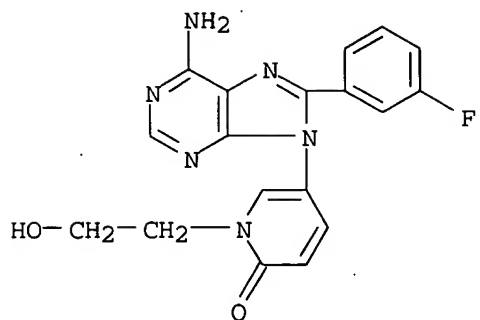
CN 2(1H)-Pyridinone, 5-[6-(cyclopropylamino)-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl- (9CI) (CA INDEX NAME)



RN 318468-48-3 CAPLUS

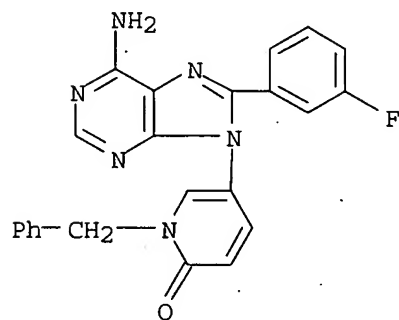
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)





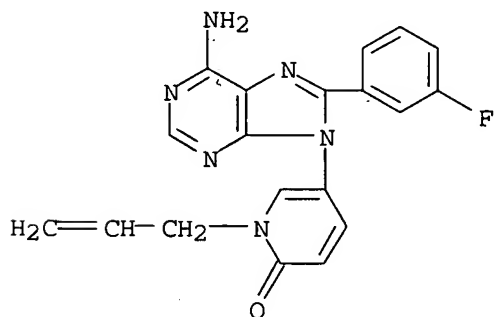
RN 318468-49-4 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



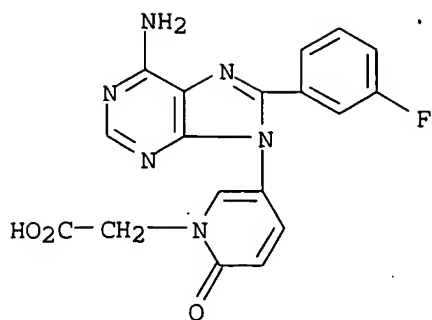
RN 318468-50-7 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-(2-propenyl)- (9CI) (CA INDEX NAME)



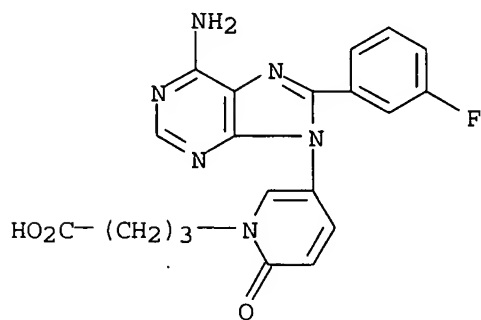
RN 318468-51-8 CAPLUS

CN 1(2H)-Pyridineacetic acid, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-2-oxo- (9CI) (CA INDEX NAME)



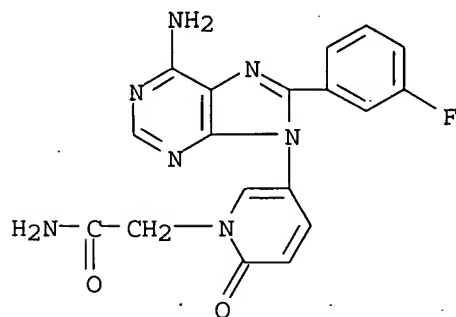
RN 318468-52-9 CAPLUS

CN 1(2H)-Pyridinebutanoic acid, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-2-oxo- (9CI) (CA INDEX NAME)



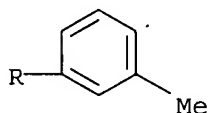
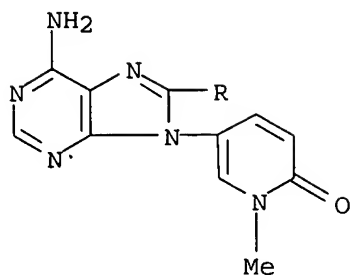
RN 318468-53-0 CAPLUS

CN 1(2H)-Pyridineacetamide, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-2-oxo- (9CI) (CA INDEX NAME)



RN 318468-56-3 CAPLUS

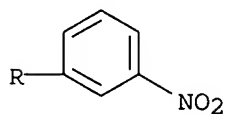
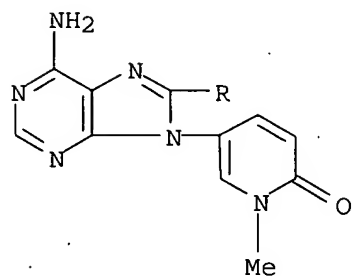
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-methylphenyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-57-4 CAPLUS

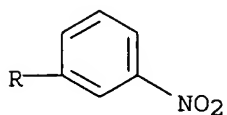
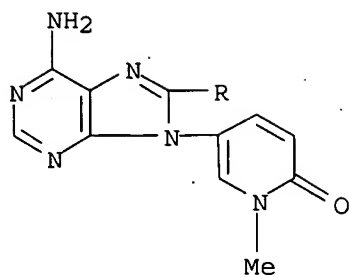
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-nitrophenyl)-9H-purin-9-yl]-1-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)



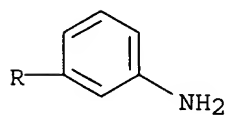
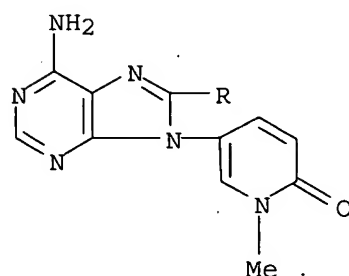
● HCl

RN 318468-58-5 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-nitrophenyl)-9H-purin-9-yl]-1-methyl-,  
(9CI) (CA INDEX NAME)



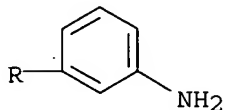
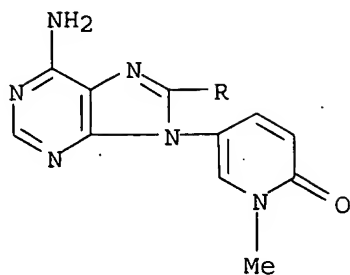
RN 318468-59-6 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-aminophenyl)-9H-purin-9-yl]-1-methyl-,  
dihydrochloride (9CI) (CA INDEX NAME)

● 2 . HCl

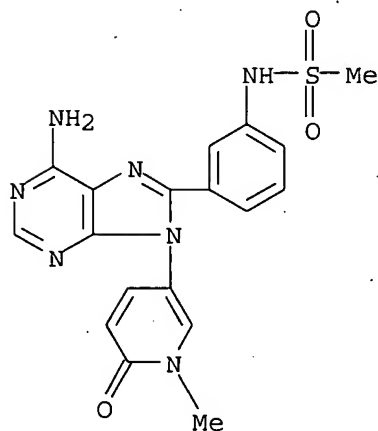
RN 318468-60-9 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-aminophenyl)-9H-purin-9-yl]-1-methyl-,  
(9CI) (CA INDEX NAME)



RN 318468-61-0 CAPLUS

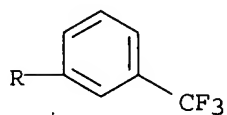
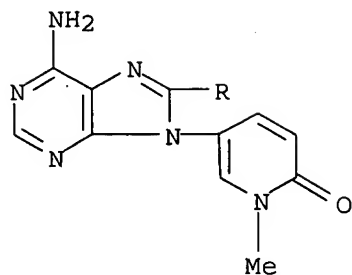
CN Methanesulfonamide, N-[3-[6-amino-9-(1,6-dihydro-1-methyl-6-oxo-3-pyridinyl)-9H-purin-8-yl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-62-1 CAPLUS

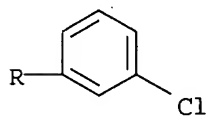
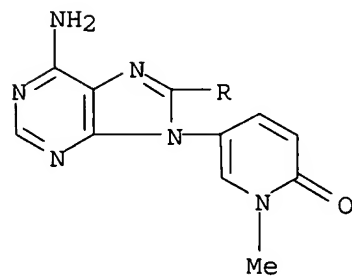
CN 2(1H)-Pyridinone, 5-[6-amino-8-[3-(trifluoromethyl)phenyl]-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-63-2 CAPLUS

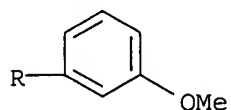
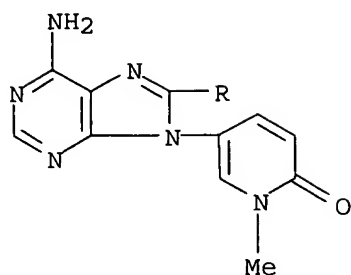
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-chlorophenyl)-9H-purin-9-yl]-1-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-64-3 CAPLUS

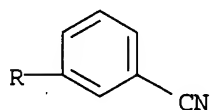
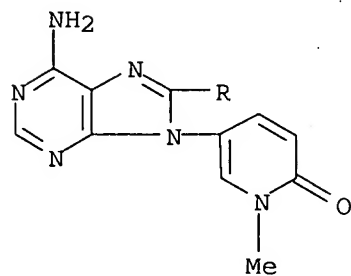
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-methoxyphenyl)-9H-purin-9-yl]-1-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-65-4 CAPLUS

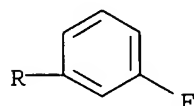
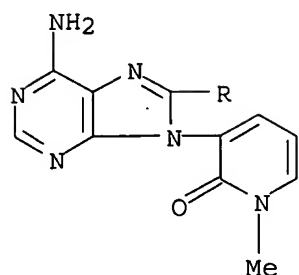
CN Benzonitrile, 3-[6-amino-9-(1,6-dihydro-1-methyl-6-oxo-3-pyridinyl)-9H-purin-8-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-71-2 CAPLUS

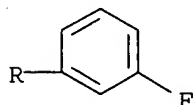
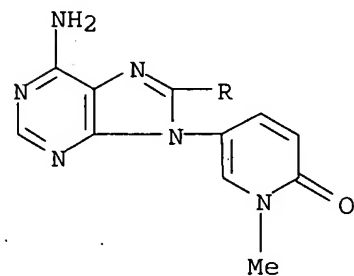
CN 2(1H)-Pyridinone, 3-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-72-3 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-, dihydrate (9CI) (CA INDEX NAME)

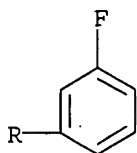
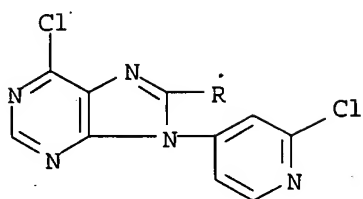


● 2 H<sub>2</sub>O

RN 318468-78-9 CAPLUS

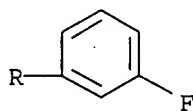
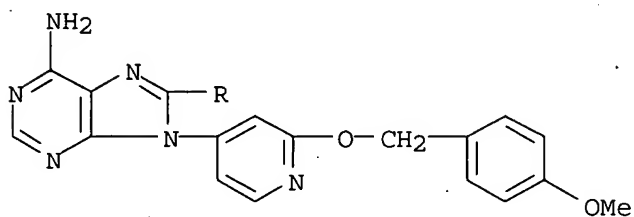
CN 9H-Purine, 6-chloro-9-(2-chloro-4-pyridinyl)-8-(3-fluorophenyl)- (9CI) (CA INDEX NAME)





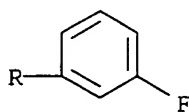
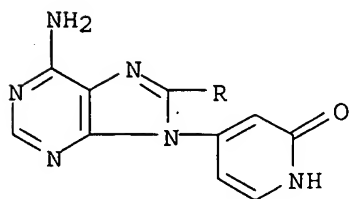
RN 318468-83-6 CAPLUS

CN 9H-Purin-6-amine, 8-(3-fluorophenyl)-9-[2-[(4-methoxyphenyl)methoxy]-4-pyridinyl]-(9CI) (CA INDEX NAME)

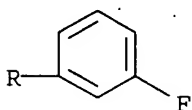
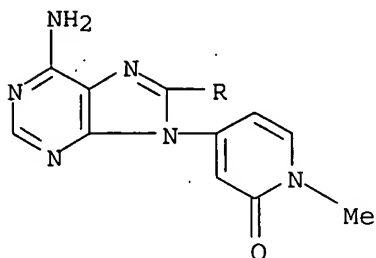


RN 318468-84-7 CAPLUS

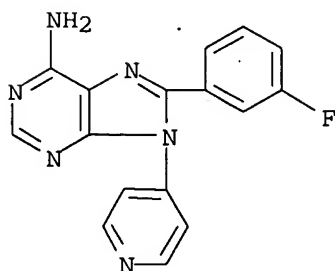
CN 2(1H)-Pyridinone, 4-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-(9CI) (CA INDEX NAME)



RN 318468-85-8 CAPLUS

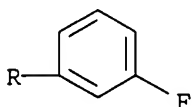
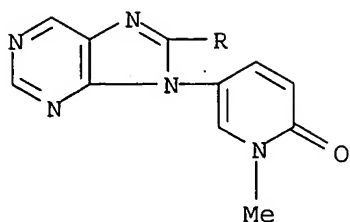
CN 2(1H)-Pyridinone, 4-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-  
(9CI) (CA INDEX NAME)

RN 318468-86-9 CAPLUS

CN 9H-Purin-6-amine, 8-(3-fluorophenyl)-9-(4-pyridinyl)- (9CI) (CA INDEX  
NAME)

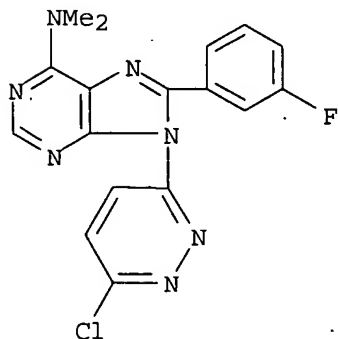
RN 318468-87-0 CAPLUS

CN 2(1H)-Pyridinone, 5-[8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl- (9CI)  
(CA INDEX NAME)



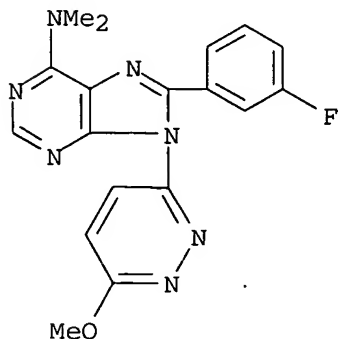
RN 318468-88-1 CAPLUS

CN 9H-Purin-6-amine, 9-(6-chloro-3-pyridazinyl)-8-(3-fluorophenyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



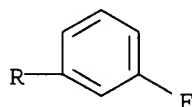
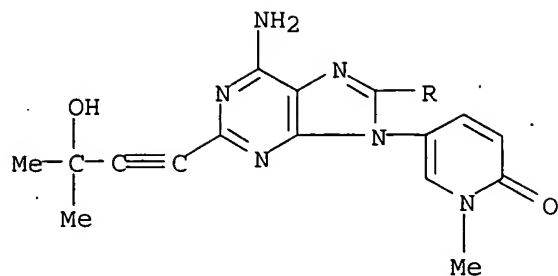
RN 318468-95-0 CAPLUS

CN 9H-Purin-6-amine, 8-(3-fluorophenyl)-9-(6-methoxy-3-pyridazinyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



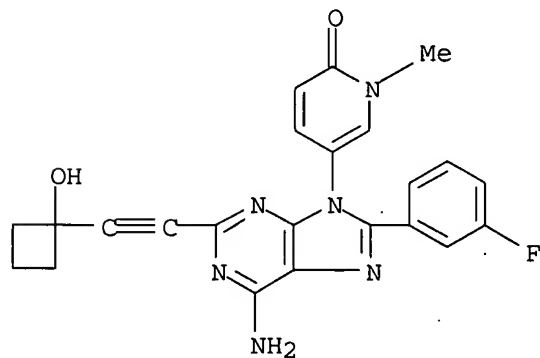
RN 318468-96-1 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-(3-hydroxy-3-methyl-1-butynyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



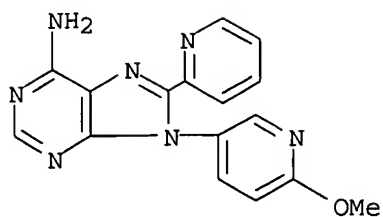
● HCl

RN 318468-97-2 CAPLUS  
 CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclobutyl)ethynyl]-9H-purin-9-yl]-1-methyl-, monohydrochloride  
 (9CI) (CA INDEX NAME)



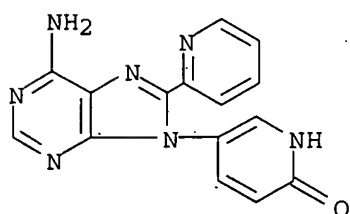
● HCl

RN 318468-98-3 CAPLUS  
 CN 9H-Purin-6-amine, 9-(6-methoxy-3-pyridinyl)-8-(2-pyridinyl)- (9CI) (CA INDEX NAME)



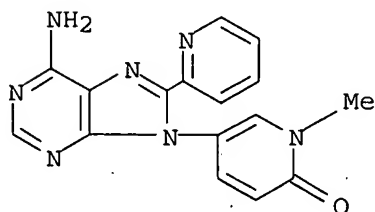
RN 318469-02-2 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(2-pyridinyl)-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



RN 318469-03-3 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(2-pyridinyl)-9H-purin-9-yl]-1-methyl- (9CI) (CA INDEX NAME)



IT 318468-09-6P 318468-19-8P 318468-20-1P

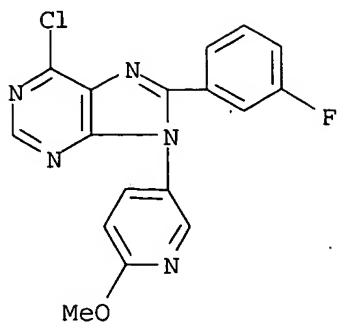
318468-54-1P 318468-76-7P 318468-82-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

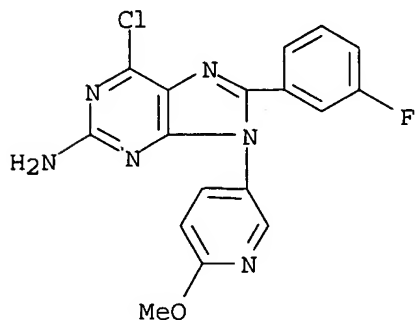
(prepn. of fused imidazole compds. as antagonists of adenosine A2 receptors and remedies for diabetes mellitus)

RN 318468-09-6 CAPLUS

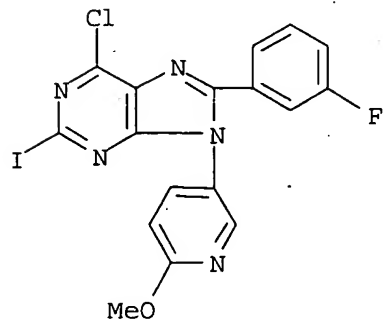
CN 9H-Purine, 6-chloro-8-(3-fluorophenyl)-9-(6-methoxy-3-pyridinyl)- (9CI) (CA INDEX NAME)



RN 318468-19-8 CAPLUS

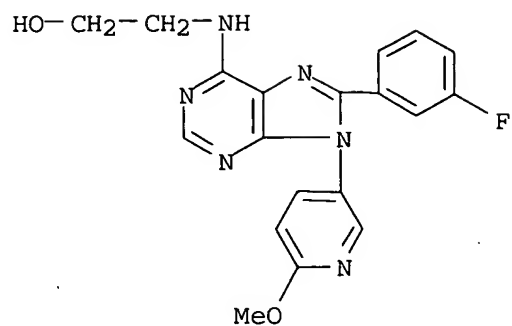
CN 9H-Purin-2-amine, 6-chloro-8-(3-fluorophenyl)-9-(6-methoxy-3-pyridinyl)-  
(9CI) (CA INDEX NAME)

RN 318468-20-1 CAPLUS

CN 9H-Purine, 6-chloro-8-(3-fluorophenyl)-2-iodo-9-(6-methoxy-3-pyridinyl)-  
(9CI) (CA INDEX NAME)

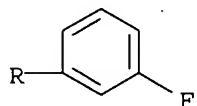
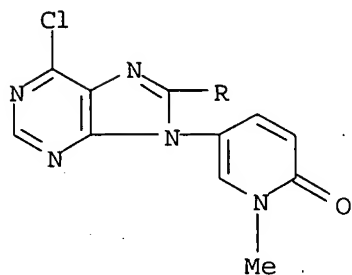
RN 318468-54-1 CAPLUS

CN Ethanol, 2-[[8-(3-fluorophenyl)-9-(6-methoxy-3-pyridinyl)-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)



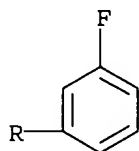
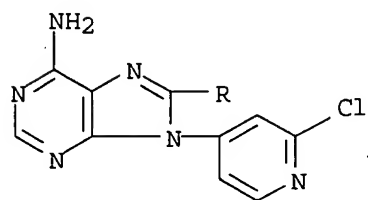
RN 318468-76-7 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-chloro-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-(9CI) (CA INDEX NAME)

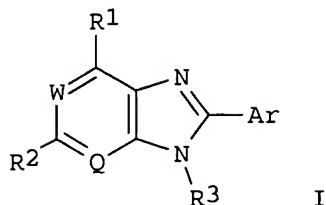


RN 318468-82-5 CAPLUS

CN 9H-Purin-6-amine, 9-(2-chloro-4-pyridinyl)-8-(3-fluorophenyl)- (9CI) (CA INDEX NAME)



GI



AB Novel fused imidazole compds. such as purine derivs. of general formula (I), pharmacol. acceptable salts thereof, or hydrates of both [wherein R1 = H, OH, halo, (un)substituted C1-8 alkyl, (un)substituted NH2; R2 = H, halo, (un)substituted NH2, (un)substituted C2-8 alkenyl, (un)substituted C3-8 alkynyl, (un)substituted C1-8 alkyl; R3 = (un)substituted C3-8 alkynyl, C3-8 alkenyl, (un)substituted C1-8 alkyl, (un)substituted aryl, (un)substituted heteroaryl, etc.; Ar = (un)substituted aryl, (un)substituted heteroaryl, optionally halo- or C1-6 alkyl-substituted N-C1-6 alkyl- or N-C3-6 cycloalkyl-oxopyridyl or -oxopyrimidyl; Q, W = N, CH; some proviso are given] are prepd. These compds. exhibit adenosine A2 receptor antagonism and are effective in the prevention and treatment of diabetes mellitus and complications of diabetes. Thus, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1,2-dihydro-2-pyridinone was condensed with N,N-dimethylformamide di-Me acetal in DMF at room temp. for 1 h, ice-cooled, treated with NaH at 0-6.degree. for 30 min, and methylated by Me iodide at room temp. for 16 h to give 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-1,2-dihydro-2-pyridinone (II). II.HCl at 10 mg/kg p.o. in spontaneously diabetic mice lowered the blood sugar level to 47.3+-7.2% of the control animal.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1999:629465 CAPLUS

DN 131:337302

TI First Evident Generation of Purin-2-yllithium: Lithiation of an 8-Silyl-Protected 6-Chloropurine Riboside as a Key Step for the Synthesis of 2-Carbon-Substituted Adenosines

AU Kumamoto, Hiroki; Tanaka, Hiromichi; Tsukioka, Ryota; Ishida, Yumiko; Nakamura, Akiko; Kimura, Satoe; Hayakawa, Hiroyuki; Kato, Keisuke; Miyasaka, Tadashi

CS School of Pharmaceutical Sciences, Showa University, Shinagawa-ku Tokyo, 142-8555, Japan

SO Journal of Organic Chemistry (1999), 64(21), 7773-7780  
CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

OS CASREACT 131:337302

IT 249757-31-1P

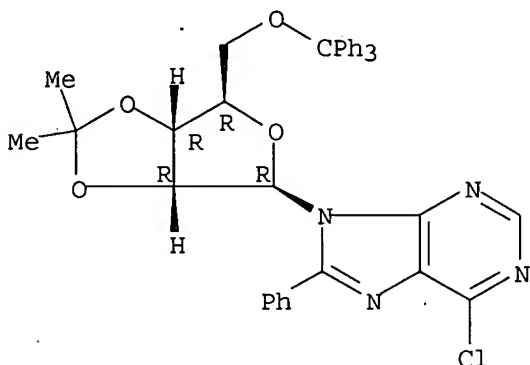
RL: SPN (Synthetic preparation); PREP (Preparation)  
(first evident generation of purinyl-lithium via lithiation of a silyl-protected chloropurine riboside as a key step)



RN 249757-31-1 CAPLUS

CN 9H-Purine, 6-chloro-9-[2,3-O-(1-methylethylidene)-5-O-(triphenylmethyl)-  
.beta.-D-ribofuranosyl]-8-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Lithiation at the 2-position of a purine ring has been accomplished for the first time by using 6-chloro-9-(2,3-O-isopropylidene-5-O-trityl-.beta.-D-ribofuranosyl)-8-(triisopropylsilyl)purine as a substrate and LTMP as a lithiating agent. The 8-triisopropylsilyl group did not undergo anionic migration and, thus, allowed the ready generation of the C2-lithiated species by preventing deprotonation at the 8-position. The electron-withdrawing 6-chlorine atom plays an essential role to this C2-lithiation. Reactions of the lithiated species with electrophiles gave the 2-substituted products (Me, Et, i-Pr, CH(OH)C<sub>6</sub>H<sub>11</sub>, C(OH)Me<sub>2</sub>, CHO, CO<sub>2</sub>Me, and I) mostly in good yields. Ammonolysis of the 6-chlorine atom of these products (heating at 110 .degree.C in a sealed tube with NH<sub>3</sub>/MeOH) effected simultaneous desilylation at the 8-position to give the corresponding adenosine analogs. The whole sequence provides a new and highly general method for the synthesis of 2-substituted adenosines.

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1999:451298 CAPLUS

DN 131:116251

TI Preparation of purine derivatives as adenosine A<sub>2</sub> receptor antagonists for the treatment of diabetes

IN Asano, Osamu; Harada, Hitoshi; Hoshino, Yori-hisa; Yoshikawa, Seiji; Inoue, Takashi; Horizoe, Tatsuo; Yasuda, Nobuyuki; Nagata, Kaya; Nagaoka, Junsaku; Murakami, Manabu; Kobayashi, Seiichi

PA Eisai Co., Ltd., Japan

SO PCT Int. Appl., 167 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9935147	A1	19990715	WO 1998-JP5870	19981224
	W: AU, BR, CA, CN, HU, KR, MX, NO, NZ, RU, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

JP 11263789	A2	19990928	JP 1998-526	A	19980105
			JP 1998-363938		19981222
CA 2315736	AA	19990715	JP 1998-526	A	19980105
			CA 1998-2315736		19981224
			JP 1998-526	A	19980105
AU 9916885	A1	19990726	WO 1998-JP5870 W		19981224
			AU 1999-16885		19981224
			JP 1998-526	A	19980105
EP 1054012	A1	20001122	WO 1998-JP5870 W		19981224
EP 1054012	B1	20030611	EP 1998-961528		19981224
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			JP 1998-526	A	19980105
			WO 1998-JP5870 W		19981224
EP 1300147	A1	20030409	EP 2002-29118		19981224
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			JP 1998-526	A	19980105
			EP 1998-961528	A3	19981224
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			WO 1998-JP5870 W		19981224

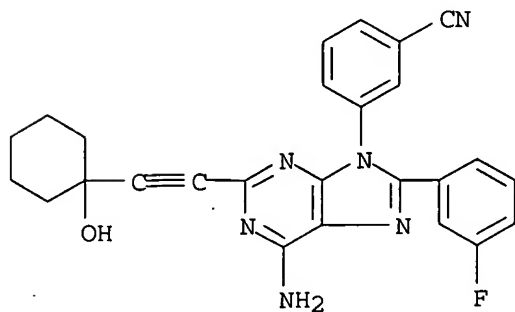
OS MARPAT 131:116251

IT 232252-44-7P 232252-45-8P 232252-46-9P  
 232252-47-0P 232252-48-1P 232252-49-2P  
 232252-50-5P 232252-54-9P 232252-55-0P  
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 232252-62-9P 232253-00-8P 232253-03-1P  
 232253-54-2P 232253-56-4P 232253-87-1P  
 232253-88-2P 232254-05-6P 232254-66-9P  
 232254-72-7P 232254-73-8P 232254-74-9P  
 232254-75-0P 232254-86-3P 232255-16-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of purine derivs. as adenosine A2 receptor antagonists for treatment of diabetes)

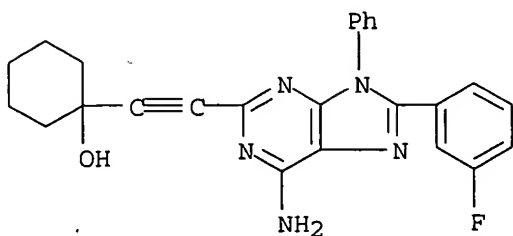
RN 232252-44-7 CAPLUS

CN Benzonitrile, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



RN 232252-45-8 CAPLUS

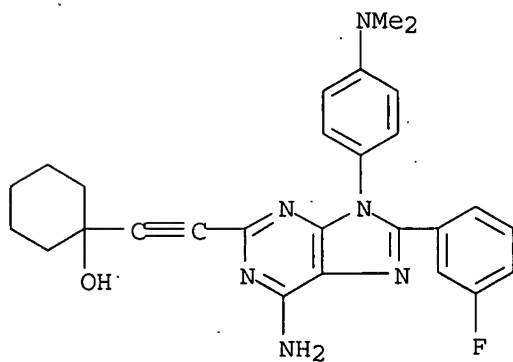
CN Cyclohexanol, 1-[[6-amino-8-(3-fluorophenyl)-9-phenyl-9H-purin-2-yl]ethynyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 232252-46-9 CAPLUS

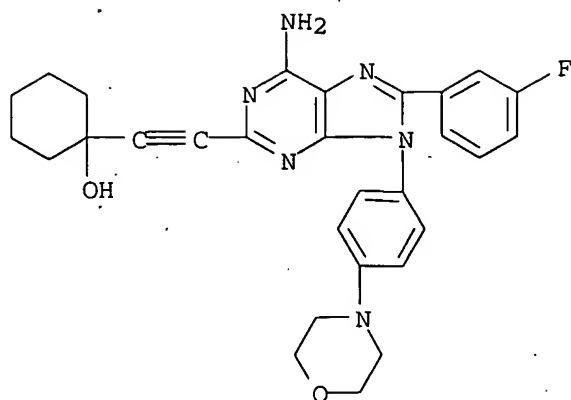
CN Cyclohexanol, 1-[[6-amino-9-[4-(dimethylamino)phenyl]-8-(3-fluorophenyl)-9H-purin-2-yl]ethynyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 232252-47-0 CAPLUS

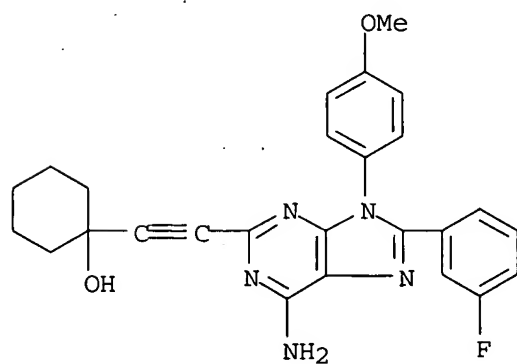
CN Cyclohexanol, 1-[[6-amino-8-(3-fluorophenyl)-9-[4-(4-morpholinyl)phenyl]-9H-purin-2-yl]ethynyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 232252-48-1 CAPLUS

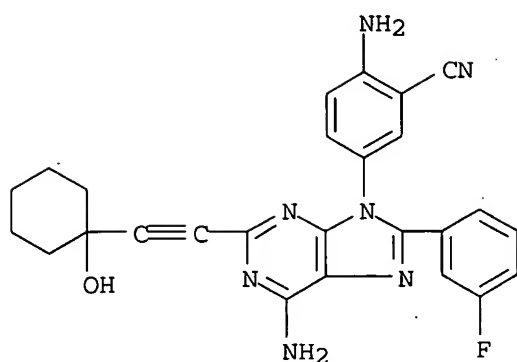
CN Cyclohexanol, 1-[[6-amino-8-(3-fluorophenyl)-9-(4-methoxyphenyl)-9H-purin-2-yl]ethynyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

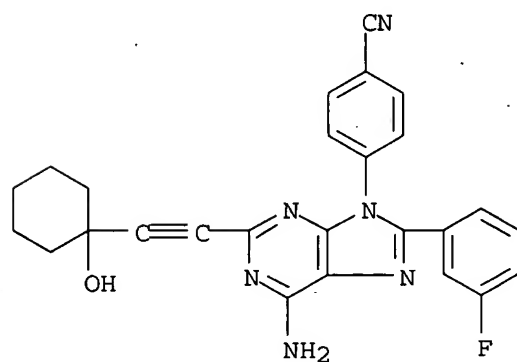
RN 232252-49-2 CAPLUS

CN Benzonitrile, 2-amino-5-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, dihydrochloride (9CI) (CA INDEX NAME)



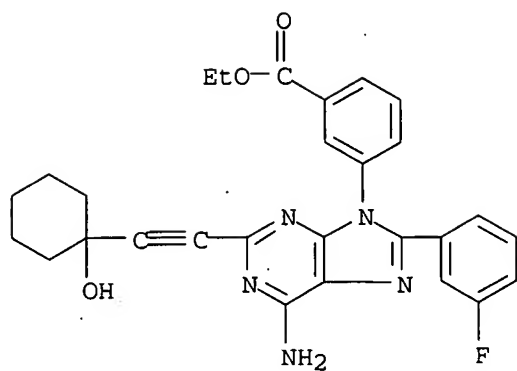
● 2 HCl

RN 232252-50-5 CAPLUS  
 CN Benzonitrile, 4-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

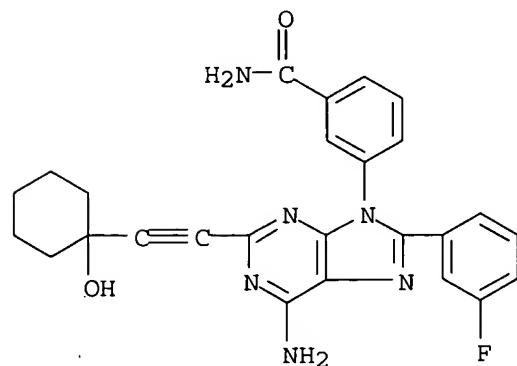
RN 232252-54-9 CAPLUS  
 CN Benzoic acid, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

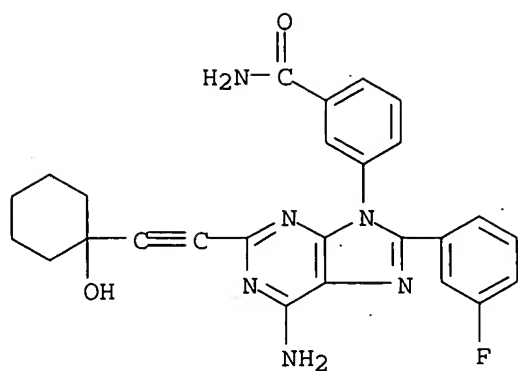
RN 232252-55-0 CAPLUS

CN Benzamide, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



RN 232252-56-1 CAPLUS

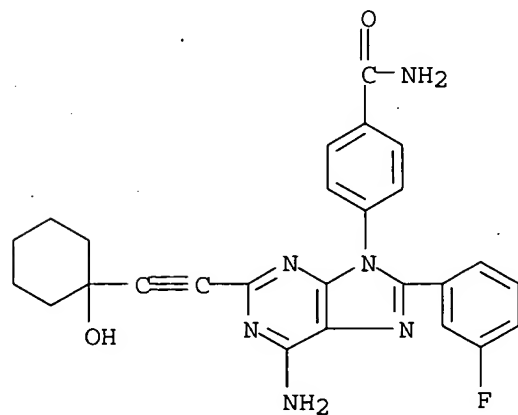
CN Benzamide, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 232252-57-2 CAPLUS

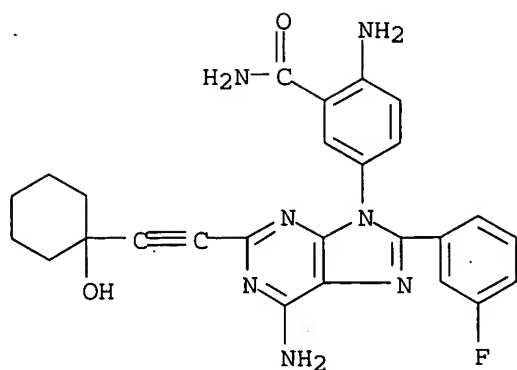
CN Benzamide, 4-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 232252-58-3 CAPLUS

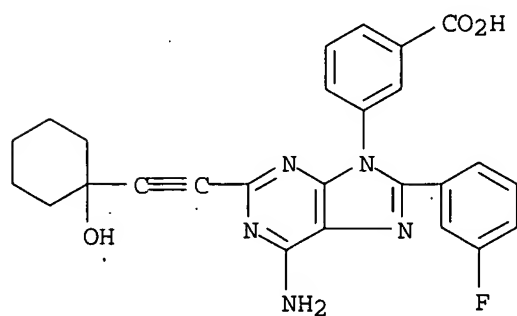
CN Benzamide, 2-amino-5-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 232252-59-4 CAPLUS

CN Benzoic acid, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)

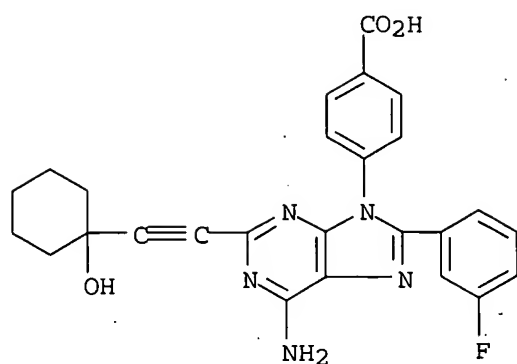


● HCl

RN 232252-60-7 CAPLUS

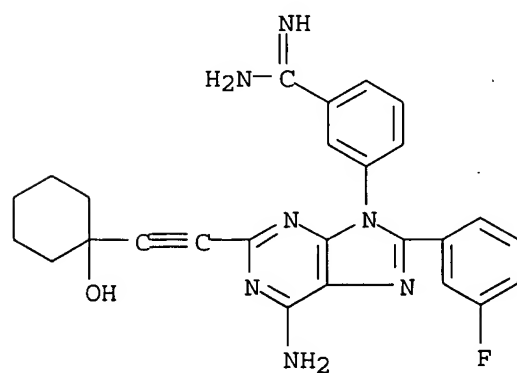
CN Benzoic acid, 4-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, monohydrochloride (9CI) (CA INDEX NAME)





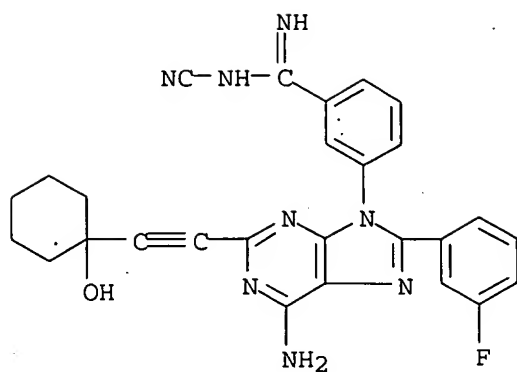
● HCl

RN 232252-61-8 CAPLUS  
 CN Benzenecarboximidamide, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

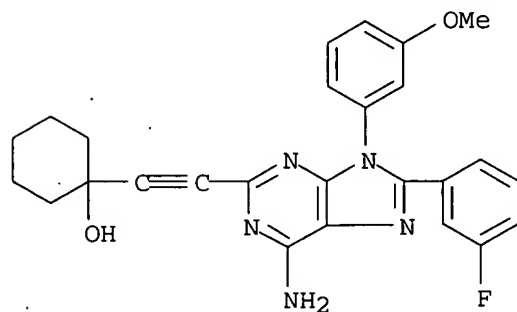
RN 232252-62-9 CAPLUS  
 CN Benzenecarboximidamide, 3-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]-N-cyano-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 232253-00-8 CAPLUS

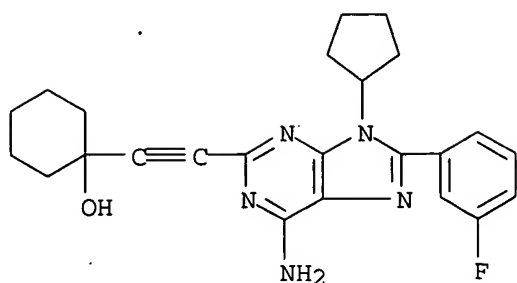
CN Cyclohexanol, 1-[[6-amino-8-(3-fluorophenyl)-9-(3-methoxyphenyl)-9H-purin-2-yl]ethynyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 232253-03-1 CAPLUS

CN Cyclohexanol, 1-[[6-amino-9-cyclopentyl-8-(3-fluorophenyl)-9H-purin-2-yl]ethynyl]-, monohydrochloride (9CI) (CA INDEX NAME)

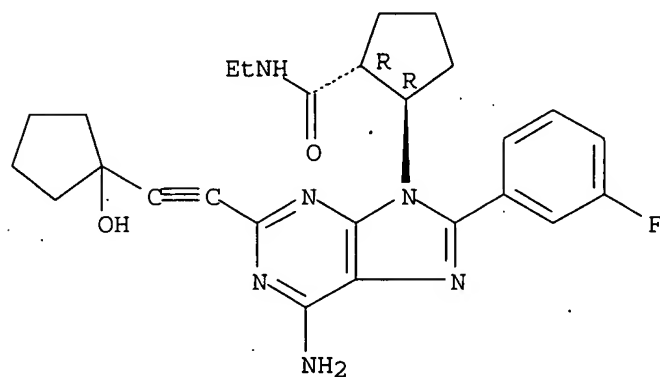


● HCl

RN 232253-54-2 CAPLUS

CN Cyclopentanecarboxamide, 2-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclopentyl)ethynyl]-9H-purin-9-yl]-N-ethyl-, monohydrochloride, (1R,2R)- (9CI) (CA INDEX NAME)

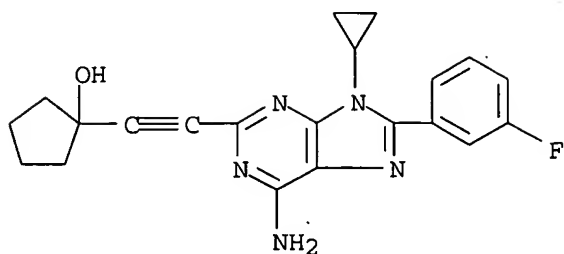
Absolute stereochemistry.



● HCl

RN 232253-56-4 CAPLUS

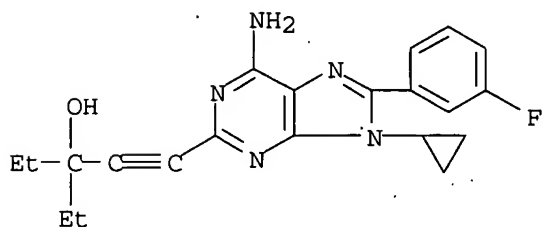
CN Cyclopentanol, 1-[[6-amino-9-cyclopropyl-8-(3-fluorophenyl)-9H-purin-2-yl]ethynyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 232253-87-1 CAPLUS

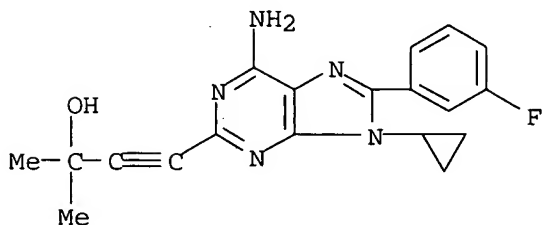
CN 1-Pentyn-3-ol, 1-[6-amino-9-cyclopropyl-8-(3-fluorophenyl)-9H-purin-2-yl]-3-ethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 232253-88-2 CAPLUS

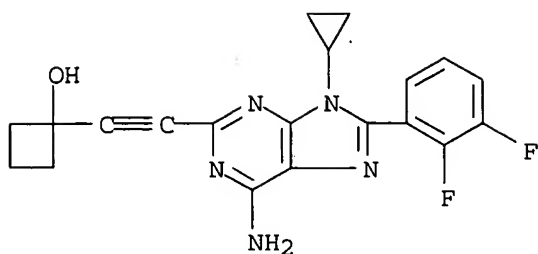
CN 3-Butyn-2-ol, 4-[6-amino-9-cyclopropyl-8-(3-fluorophenyl)-9H-purin-2-yl]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 232254-05-6 CAPLUS

CN Cyclobutanol, 1-[[6-amino-9-cyclopropyl-8-(2,3-difluorophenyl)-9H-purin-2-yl]ethynyl]-, monohydrochloride (9CI) (CA INDEX NAME)

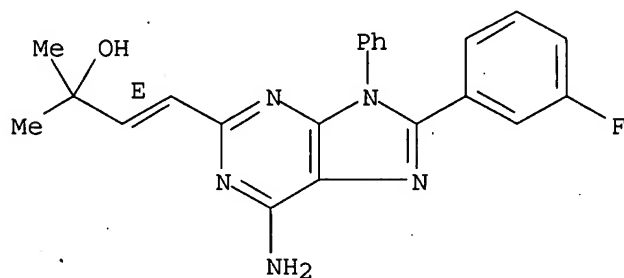


● HCl

RN 232254-66-9 CAPLUS

CN 3-Buten-2-ol, 4-[6-amino-8-(3-fluorophenyl)-9-phenyl-9H-purin-2-yl]-2-methyl-, monohydrochloride, (3E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

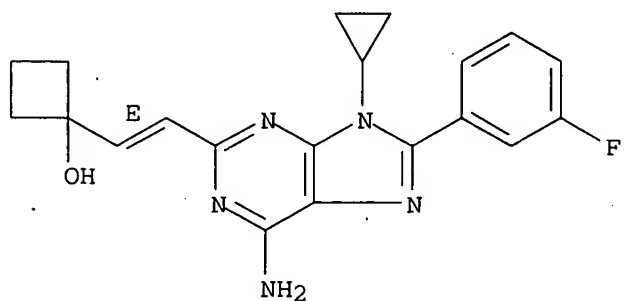


● HCl

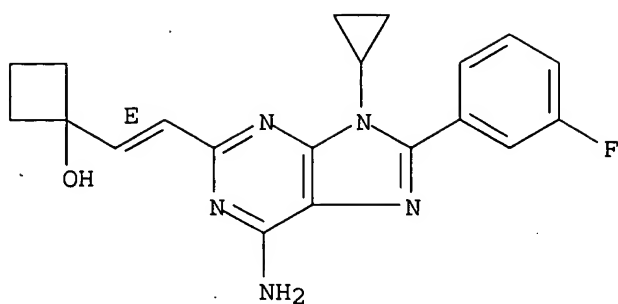
RN 232254-72-7 CAPLUS

CN Cyclobutanol, 1-[(1E)-2-[6-amino-9-cyclopropyl-8-(3-fluorophenyl)-9H-purin-2-yl]ethenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● HCl

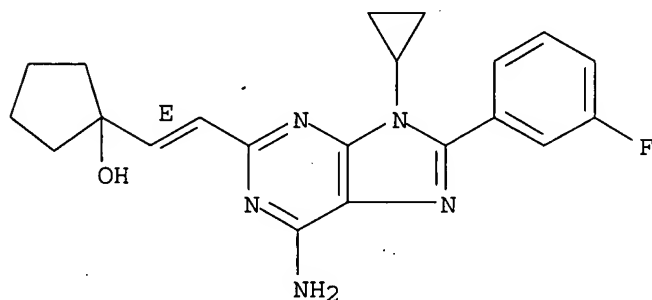


● HCl

RN 232254-73-8 CAPLUS

CN Cyclopentanol, 1-[(1E)-2-[6-amino-9-cyclopropyl-8-(3-fluorophenyl)-9H-purin-2-yl]ethenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.

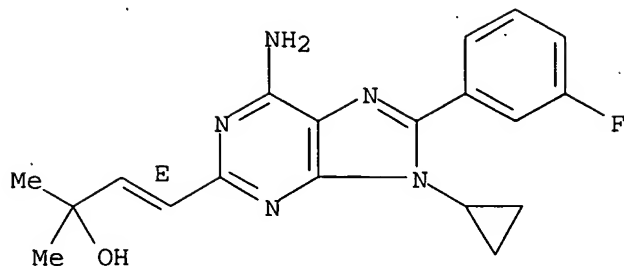


● HCl

RN 232254-74-9 CAPLUS

CN 3-Buten-2-ol, 4-[6-amino-9-cyclopropyl-8-(3-fluorophenyl)-9H-purin-2-yl]-2-methyl-, monohydrochloride, (3E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

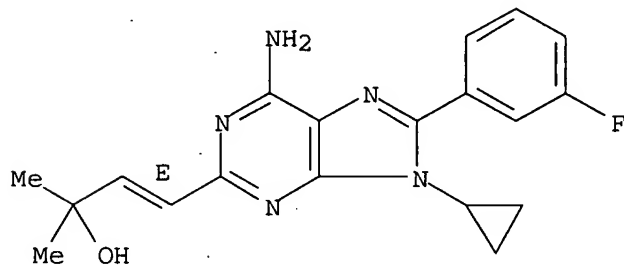


● HCl

RN 232254-75-0 CAPLUS

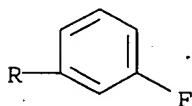
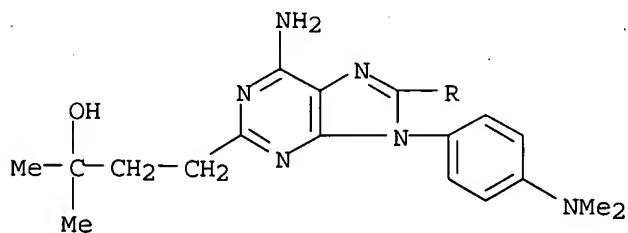
CN 3-Buten-2-ol, 4-[6-amino-9-cyclopropyl-8-(3-fluorophenyl)-9H-purin-2-yl]-2-methyl-, (3E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 232254-86-3 CAPLUS

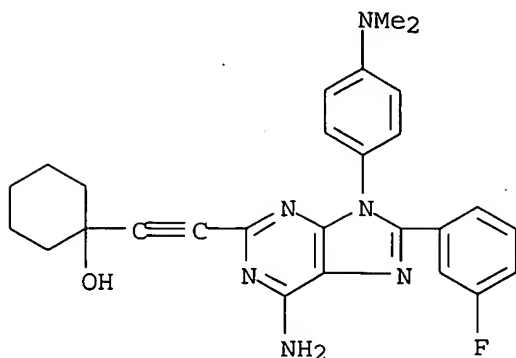
CN 9H-Purine-2-propanol, 6-amino-9-[4-(dimethylamino)phenyl]-8-(3-fluorophenyl)-.alpha.,.alpha.-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 232255-16-2 CAPLUS

CN Cyclohexanol, 1-[[6-amino-9-[4-(dimethylamino)phenyl]-8-(3-fluorophenyl)-9H-purin-2-yl]ethynyl]- (9CI) (CA INDEX NAME)



IT 232254-90-9P 232254-91-0P 232254-92-1P

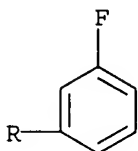
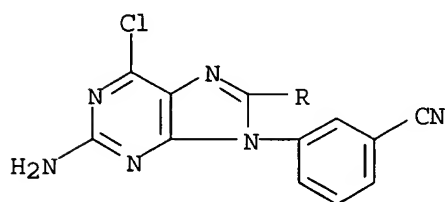
232254-93-2P 232254-94-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of purine derivs. as adenosine A2 receptor antagonists for treatment of diabetes)

RN 232254-90-9 CAPLUS

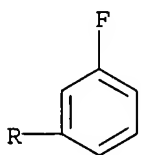
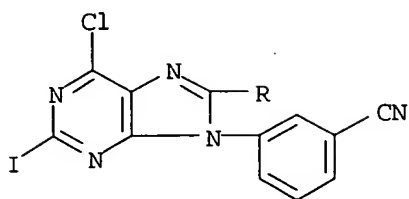
CN Benzonitrile, 3-[2-amino-6-chloro-8-(3-fluorophenyl)-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



RN 232254-91-0 CAPLUS

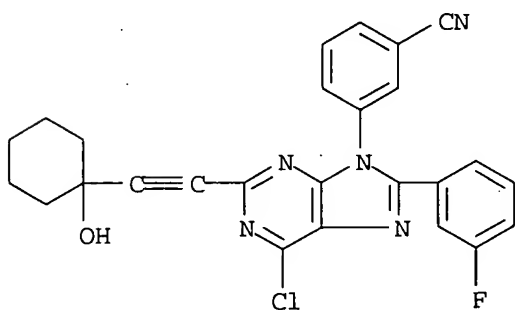
CN Benzonitrile, 3-[6-chloro-8-(3-fluorophenyl)-2-iodo-9H-purin-9-yl]- (9CI) (CA INDEX NAME)





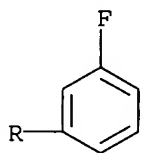
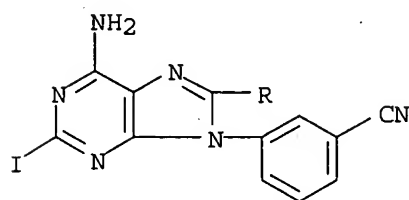
RN 232254-92-1 CAPLUS

CN Benzonitrile, 3-[6-chloro-8-(3-fluorophenyl)-2-[(1-hydroxycyclohexyl)ethynyl]-9H-purin-9-yl]- (9CI) (CA INDEX NAME)



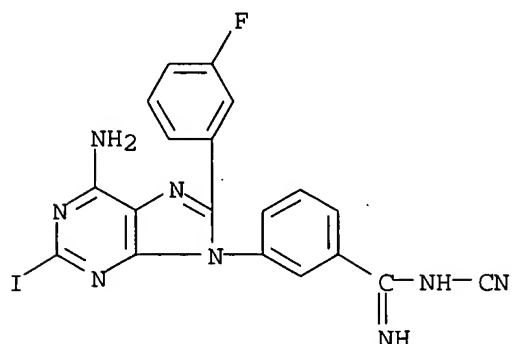
RN 232254-93-2 CAPLUS

CN Benzonitrile, 3-[6-amino-8-(3-fluorophenyl)-2-iodo-9H-purin-9-yl]- (9CI) (CA INDEX NAME)

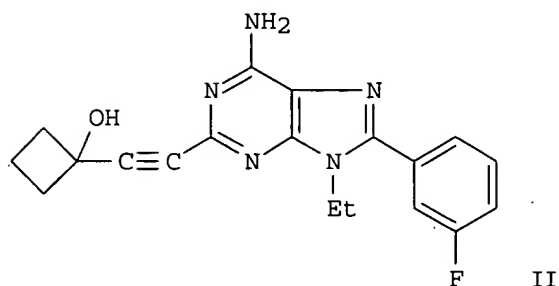
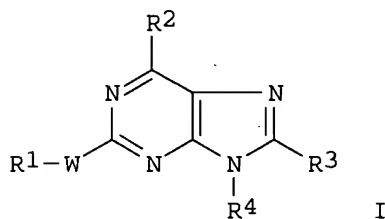


RN 232254-94-3 CAPLUS

CN Benzenecarboximidamide, 3-[6-amino-8-(3-fluorophenyl)-2-iodo-9H-purin-9-yl]-N-cyano- (9CI) (CA INDEX NAME)



GI



AB The title compds. I [R1 = (un)substituted arom. ring (which may contain heteroatom), etc.; W = CH<sub>2</sub>CH<sub>2</sub>, etc.; R2 = H, (un)substituted alkyl, etc.; R3 = H, (un)substituted cycloalkyl, etc.; R4 = H, (un)substituted alkyl, heteroaryl, etc.; a proviso is given] are prepd. In an in vitro test for A2a receptor antagonism, the title compd. II showed the K<sub>i</sub> value of 0.002 .mu.M.

RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1999:112311 CAPLUS

DN 130:209672

TI Synthesis, corticotropin-releasing factor receptor binding affinity, and

pharmacokinetic properties of triazolo-, imidazo-, and pyrrolopyrimidines and -pyridines

- AU Chorvat, Robert J.; Bakthavatchalam, Rajagopal; Beck, James P.; Gilligan, Paul J.; Wilde, Richard G.; Cocuzza, Anthony J.; Hobbs, Frank W.; Cheeseman, Robert S.; Curry, Matthew; Rescinito, Joseph P.; Krenitsky, Paul; Chidester, Dennis; Yarem, Jerry A.; Klaczkiewicz, John D.; Hodge, C. Nicholas; Aldrich, Paul E.; Wasserman, Zelda R.; Fernandez, Christine H.; Zaczek, Robert; Fitzgerald, Lawrence W.; Huang, Shiew-Mei; Shen, Helen L.; Wong, Y. Nancy; Chien, Ben M.; Quon, Check Y.; Arvanitis, Argyrios
- CS Departments of Chemical and Physical Sciences and of Biological Sciences, DuPont Pharmaceuticals Company, Wilmington, DE, 19880-0500, USA
- SO Journal of Medicinal Chemistry (1999), 42(5), 833-848  
CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

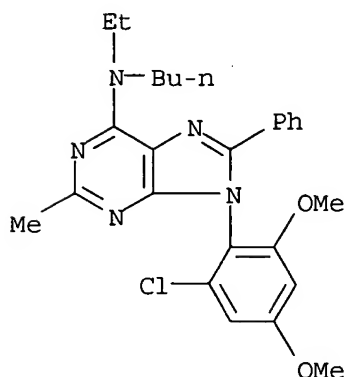
IT 220953-13-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(CRF receptor binding affinity of triazolo-, imidazo-, and pyrrolopyrimidines and -pyridines prepd. from amines, alcs., pyrimidine and pyridine derivs.)

RN 220953-13-9 CAPLUS

CN 9H-Purin-6-amine, N-butyl-9-(2-chloro-4,6-dimethoxyphenyl)-N-ethyl-2-methyl-8-phenyl- (9CI) (CA INDEX NAME)



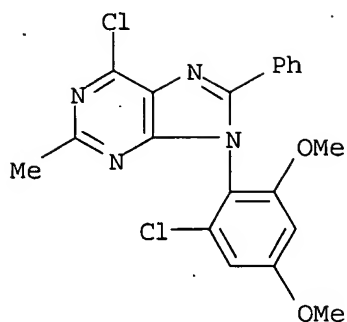
IT 220952-86-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

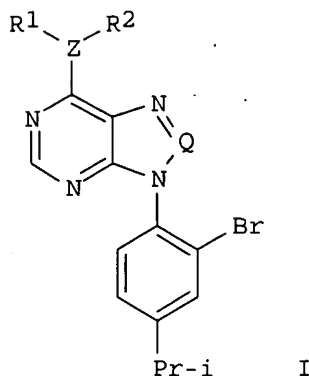
(CRF receptor binding affinity of triazolo-, imidazo-, and pyrrolopyrimidines and -pyridines prepd. from amines, alcs., pyrimidine and pyridine derivs.)

RN 220952-86-3 CAPLUS

CN 9H-Purine, 6-chloro-9-(2-chloro-4,6-dimethoxyphenyl)-2-methyl-8-phenyl- (9CI) (CA INDEX NAME)



GI



I

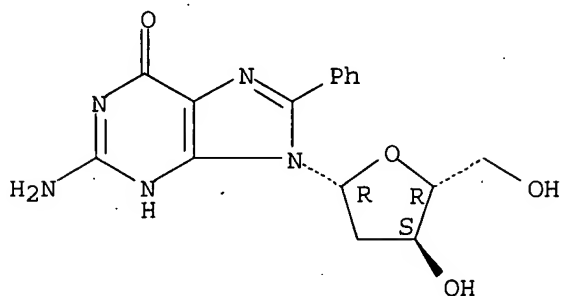
AB The synthesis and CRF receptor binding affinities of several new series of N-aryltriazolo- and -imidazopyrimidines and -pyridines, e.g., I (R1 = n-Bu, CH<sub>2</sub>Et<sub>2</sub>, CH<sub>2</sub>EtCH<sub>2</sub>OH, etc., R2 = Et, H, Me, etc., Q = N, CH, CMe, CCF<sub>3</sub>, Z = N, O), are described. These cyclized systems were prepd. from appropriately substituted diaminopyrimidines or -pyridines by nitrous acid, orthoester, or acyl halide treatment. Variations of amino (ether) pendants and arom. substituents have defined the structure-activity relationships of these series and resulted in the identification of a variety of high-affinity agents (K<sub>i</sub>'s < 10 nM). On the basis of this property and lipophilicity differences, six of these compds. were initially chosen for rat pharmacokinetic (PK) studies. Good oral bioavailability, high plasma levels, and duration of four of these compds. prompted further PK studies in the dog following both i.v. and oral routes of administration. Results from this work indicated I [R1 = R2 = (CH<sub>2</sub>)OMe, Q = Z = N; R1 CH<sub>2</sub>EtCH<sub>2</sub>OMe, R2 = H, Q = Z = N] had properties believe to be necessary for a potential therapeutic agent, and I [R1 = R2 = (CH<sub>2</sub>)OMe, Q = Z = N] has been selected for further pharmacol. studies that will be reported in due course.

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2003 ACS  
AN 1997:757616 CAPLUS  
DN 128:58662

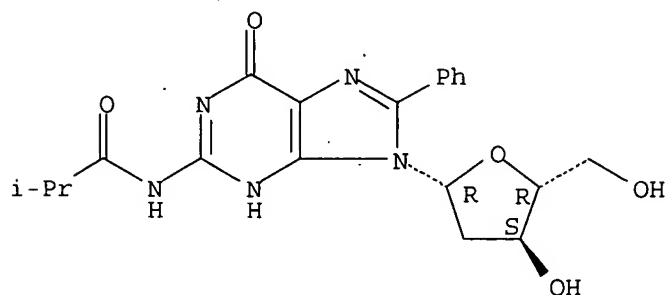
TI Synthesis and Miscoding Specificity of Oligodeoxynucleotide Containing  
8-Phenyl-2'-deoxyguanosine  
AU Kohda, Kohfuku; Tsunomoto, Hirotaka; Kasamatsu, Toshio; Sawamura, Fumiko;  
Terashima, Isamu; Shibutani, Shinya  
CS Faculty of Pharmaceutical Sciences, Nagoya City University, Nagoya, 467,  
Japan  
SO Chemical Research in Toxicology (1997), 10(12), 1351-1358  
CODEN: CRTOEC; ISSN: 0893-228X  
PB American Chemical Society  
DT Journal  
LA English  
OS CASREACT 128:58662  
IT 199991-98-5P 199992-01-3P 199992-04-6P  
199992-07-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(synthesis and miscoding specificity of oligodeoxynucleotide contg.  
8-phenyl-2'-deoxyguanosine)  
RN 199991-98-5 CAPLUS  
CN Guanosine, 2'-deoxy-8-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



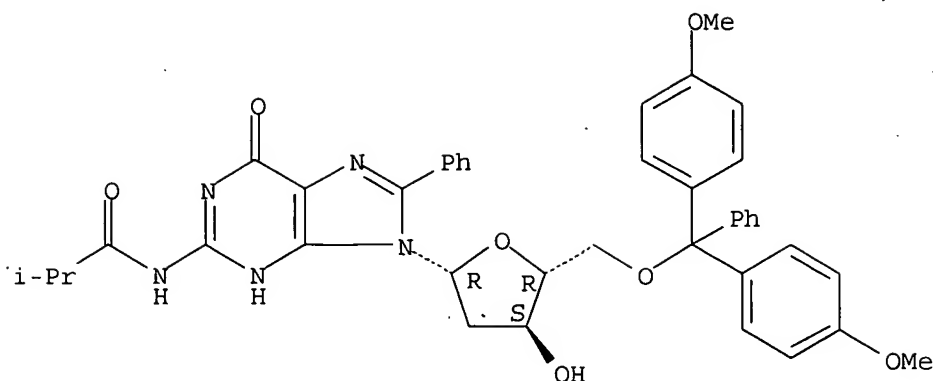
RN 199992-01-3 CAPLUS  
CN Guanosine, 2'-deoxy-N-(2-methyl-1-oxopropyl)-8-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 199992-04-6 CAPLUS  
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-deoxy-N-(2-methyl-1-oxopropyl)-8-phenyl- (9CI) (CA INDEX NAME)

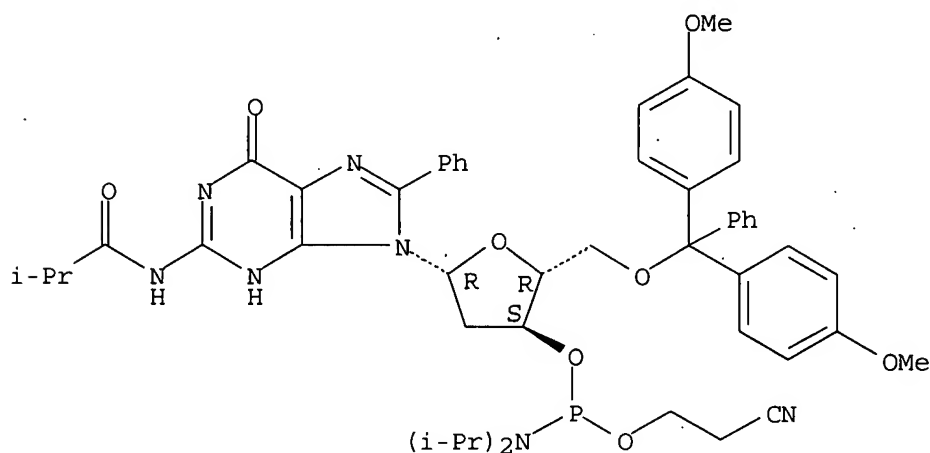
Absolute stereochemistry.



RN 199992-07-9 CAPLUS

CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-deoxy-N-(2-methyl-1-oxopropyl)-8-phenyl-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Aryl radicals and arenediazonium ions are suspected to react with cellular DNA, resulting in C8-arylguanine adducts. 8-Phenyl-2'-deoxyguanosine (8-PhdG) was synthesized as a model adduct by reacting dG with benzenediazonium chloride and incorporated into oligodeoxynucleotides using phosphoramidite techniques. A site-specifically modified oligodeoxynucleotide contg. a single 8-PhdG was then used as a template for primer extension reactions catalyzed by the intact (exo+) or 3'.fwdarw.5' exonuclease-free (exo-) Klenow fragment of Escherichia coli DNA polymerase I and mammalian DNA polymerase  $\alpha$  (pol .alpha.). Although primer extensions catalyzed by the Klenow fragments were retarded at the position of 8-PhdG, most of the primer extension passed the lesion to form the fully extended products. In contrast, primer extensions catalyzed by pol .alpha. were strongly blocked opposite the lesion. The fully extended products formed during DNA synthesis were analyzed to quantify the miscoding specificities of 8-PhdG. The exo- Klenow fragment incorporated primarily dCMP, the correct base, opposite 8-PhdG, along with small amts. of incorporation of dAMP. Two-base deletions were also obsd. In

contrast, the exo+ Klenow fragment incorporated dCMP opposite the lesion. When pol .alpha. was used, 8-PhdG promoted small amts. of misincorporation of dAMP and dGMP as well as one- and two-base deletions. The duplex contg. 8-PhdG.cntdot.dG was thermally and thermodynamically more stable than dG.cntdot.dG. The duplex contg. 8-PhdG.cntdot.dA was thermodynamically more stable than dG.cntdot.dA. We conclude that 8-PhdG is a weak miscoding lesion, capable of generating G .fwdarw. T and G .fwdarw. C transversions and deletions in cells.

L4 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1997:15548 CAPLUS

DN 126:104368

TI Process for the preparation of purine nucleosides using palladium-catalyzed coupling reaction

IN Tu, Chi; Eaton, Bruce

PA Nexstar Pharmaceuticals, Inc., USA

SO U.S., 7 pp., Cont.-in-part of U.S. 5,428,149.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5580972	A	19961203	US 1994-347600	19941201
				US 1993-76735	A219930614
	US 5428149	A	19950627	US 1993-76735	19930614
	CA 2164935	AA	19941222	CA 1994-2164935	19940531
				US 1993-76735	A 19930614
	US 5633361	A	19970527	US 1995-407893	19950321
				US 1993-76735	A319930614
	US 5591843	A	19970107	US 1995-423395	19950419
				US 1993-76735	A319930614
	US 5783679	A	19980721	US 1995-441881	19950516
				US 1993-76735	A219930614
				US 1994-347600	A119941201
	WO 9616972	A1	19960606	WO 1995-US15124	19951120
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
				US 1994-347600	A 19941201
	AU 9642412	A1	19960619	AU 1996-42412	19951120
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				WO 1995-US15124W	19951120

#### PATENT FAMILY INFORMATION:

FAN 1995:422814

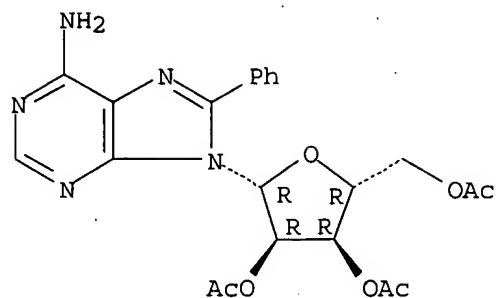
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				US 1993-76735	A 19930614

US 5428149	A	19950627	US 1993-76735	19930614
CA 2164935	AA	19941222	CA 1994-2164935	19940531
			US 1993-76735 A	19930614
AU 9470461	A1	19950103	AU 1994-70461	19940531
AU 683665	B2	19971120		
			US 1993-76735 A	19930614
			WO 1994-US5946 W	19940531
EP 702675	A1	19960327	EP 1994-919254	19940531
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			US 1993-76735 A	19930614
			WO 1994-US5946 W	19940531
JP 08511527	T2	19961203	JP 1994-501854	19940531
			US 1993-76735 A	19930614
			WO 1994-US5946 W	19940531
US 5633361	A	19970527	US 1995-407893	19950321
			US 1993-76735 A3	19930614
US 5591843	A	19970107	US 1995-423395	19950419
			US 1993-76735 A3	19930614
FAN 1996:476827				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9616972	A1	19960606	WO 1995-US15124	19951120
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
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			US 1994-347600 A	19941201
US 5580972	A	19961203	US 1994-347600	19941201
			US 1993-76735 A2	19930614
AU 9642412	A1	19960619	AU 1996-42412	19951120
			US 1994-347600 A	19941201
			WO 1995-US15124W	19951120
FAN 1997:88785				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9638460	A1	19961205	WO 1996-US8026	19960530
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			US 1995-458421 A	19950602
			US 1995-459073 A	19950602
US 5719273	A	19980217	US 1995-458421	19950602
			US 1993-76735 A2	19930614
AU 9661468	A1	19961218	AU 1996-61468	19960530
AU 721747	B2	20000713		
			US 1995-458421 A	19950602
			US 1995-459073 A	19950602
			WO 1996-US8026 W	19960530
EP 828750	A1	19980318	EP 1996-919015	19960530
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			US 1995-458421 A	19950602



				US 1995-459073 A 19950602
				WO 1996-US8026 W 19960530
JP 11506107	T2	19990602		JP 1996-536652 19960530
				US 1995-458421 A 19950602
				US 1995-459073 A 19950602
				WO 1996-US8026 W 19960530
US 5945527	A	19990831		US 1997-952338 19971104
				WO 1996-US8026 W 19960530
FAN 1998:149514				
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PI US 5719273	A	19980217	US 1995-458421	19950602
			US 1993-76735 A2	19930614
US 5428149	A	19950627	US 1993-76735	19930614
CA 2164935	AA	19941222	CA 1994-2164935	19940531
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US 5633361	A	19970527	US 1995-407893	19950321
			US 1993-76735 A3	19930614
US 5591843	A	19970107	US 1995-423395	19950419
			US 1993-76735 A3	19930614
CA 2221279	AA	19961205	CA 1996-2221279	19960530
			US 1995-458421 A	19950602
			US 1995-459073 A	19950602
WO 9638460	A1	19961205	WO 1996-US8026	19960530
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
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			US 1995-459073 A	19950602
AU 9661468	A1	19961218	AU 1996-61468	19960530
AU 721747	B2	20000713		
			US 1995-458421 A	19950602
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			WO 1996-US8026 W	19960530
EP 828750	A1	19980318	EP 1996-919015	19960530
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			US 1995-458421 A	19950602
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			WO 1996-US8026 W	19960530
JP 11506107	T2	19990602	JP 1996-536652	19960530
			US 1995-458421 A	19950602
			US 1995-459073 A	19950602
			WO 1996-US8026 W	19960530
OS CASREACT 126:104368; MARPAT 126:104368				
IT 172945-44-7P 172945-47-0P 172945-50-5P				
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)				
(process for the prepn. of purine nucleosides using palladium-catalyzed coupling reaction)				
RN 172945-44-7 CAPLUS				
CN Adenosine, 8-phenyl-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)				

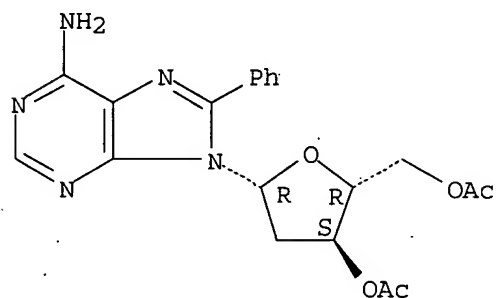
Absolute stereochemistry.



RN 172945-47-0 CAPLUS

CN Adenosine, 2'-deoxy-8-phenyl-, 3',5'-diacetate (9CI) (CA INDEX NAME)

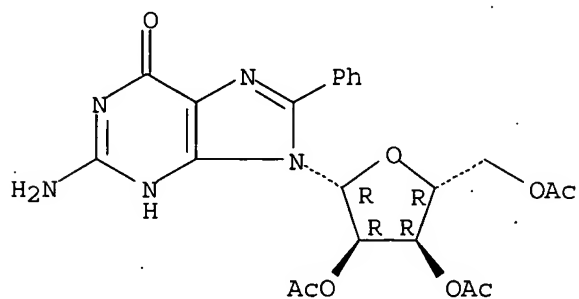
Absolute stereochemistry.



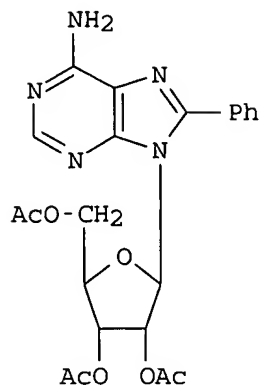
RN 172945-50-5 CAPLUS

CN Guanosine, 8-phenyl-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



AB Improved method for the prepn. of modified purine nucleosides at the 2-, 6-, or 8-position of the purine ring, e.g. I, using a palladium-catalyzed coupling reaction, is reported.

L4 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1996:476827 CAPLUS

DN 125:143238

TI Palladium-catalyzed C-alkenylation of purine nucleosides with organotin

IN Tu, Chi; Eaton, Bruce

PA Nexstar Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9616972	A1	19960606	WO 1995-US15124	19951120
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				US 1994-347600	19941201
				US 1993-76735 A2	19930614
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				WO 1995-US15124W	19951120

PATENT FAMILY INFORMATION:

FAN 1995:422814

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PI	WO 9429279	A1	19941222	WO 1994-US5946	19940531
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				US 1993-76735 A	19930614

US 5428149	A	19950627	US 1993-76735	19930614
CA 2164935	AA	19941222	CA 1994-2164935	19940531
			US 1993-76735 A	19930614
AU 9470461	A1	19950103	AU 1994-70461	19940531
AU 683665	B2	19971120		
			US 1993-76735 A	19930614
			WO 1994-US5946 W	19940531
EP 702675	A1	19960327	EP 1994-919254	19940531
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
			US 1993-76735 A	19930614
			WO 1994-US5946 W	19940531
JP 08511527	T2	19961203	JP 1994-501854	19940531
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			WO 1994-US5946 W	19940531
US 5633361	A	19970527	US 1995-407893	19950321
			US 1993-76735 A3	19930614
US 5591843	A	19970107	US 1995-423395	19950419
			US 1993-76735 A3	19930614
FAN 1997:15548				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI US 5580972	A	19961203	US 1994-347600	19941201
			US 1993-76735 A2	19930614
US 5428149	A	19950627	US 1993-76735	19930614
CA 2164935	AA	19941222	CA 1994-2164935	19940531
			US 1993-76735 A	19930614
US 5633361	A	19970527	US 1995-407893	19950321
			US 1993-76735 A3	19930614
US 5591843	A	19970107	US 1995-423395	19950419
			US 1993-76735 A3	19930614
US 5783679	A	19980721	US 1995-441881	19950516
			US 1993-76735 A2	19930614
			US 1994-347600 A1	19941201
WO 9616972	A1	19960606	WO 1995-US15124	19951120
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
			US 1994-347600 A	19941201
AU 9642412	A1	19960619	AU 1996-42412	19951120
			US 1994-347600 A	19941201
			WO 1995-US15124W	19951120
FAN 1997:88785				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9638460	A1	19961205	WO 1996-US8026	19960530
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			US 1995-458421 A	19950602
			US 1995-459073 A	19950602
US 5719273	A	19980217	US 1995-458421	19950602

AU 9661468	A1	19961218	US 1993-76735	A219930614
AU 721747	B2	20000713	AU 1996-61468	19960530
			US 1995-458421	A 19950602
			US 1995-459073	A 19950602
			WO 1996-US8026	W 19960530
EP 828750	A1	19980318	EP 1996-919015	19960530
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
			US 1995-458421	A 19950602
			US 1995-459073	A 19950602
			WO 1996-US8026	W 19960530
JP 11506107	T2	19990602	JP 1996-536652	19960530
			US 1995-458421	A 19950602
			US 1995-459073	A 19950602
			WO 1996-US8026	W 19960530
US 5945527	A	19990831	US 1997-952338	19971104
			WO 1996-US8026	W 19960530
FAN 1998:149514				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI US 5719273	A	19980217	US 1995-458421	19950602
			US 1993-76735	A219930614
US 5428149	A	19950627	US 1993-76735	19930614
CA 2164935	AA	19941222	CA 1994-2164935	19940531
			US 1993-76735	A 19930614
US 5633361	A	19970527	US 1995-407893	19950321
			US 1993-76735	A319930614
US 5591843	A	19970107	US 1995-423395	19950419
			US 1993-76735	A319930614
CA 2221279	AA	19961205	CA 1996-2221279	19960530
			US 1995-458421	A 19950602
			US 1995-459073	A 19950602
WO 9638460	A1	19961205	WO 1996-US8026	19960530
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
			US 1995-458421	A 19950602
			US 1995-459073	A 19950602
AU 9661468	A1	19961218	AU 1996-61468	19960530
AU 721747	B2	20000713		
			US 1995-458421	A 19950602
			US 1995-459073	A 19950602
			WO 1996-US8026	W 19960530
EP 828750	A1	19980318	EP 1996-919015	19960530
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
			US 1995-458421	A 19950602
			US 1995-459073	A 19950602
			WO 1996-US8026	W 19960530
JP 11506107	T2	19990602	JP 1996-536652	19960530
			US 1995-458421	A 19950602
			US 1995-459073	A 19950602
			WO 1996-US8026	W 19960530
OS CASREACT 125:143238; MARPAT 125:143238				

IT 172945-44-7P 172945-47-0P 172945-50-5P

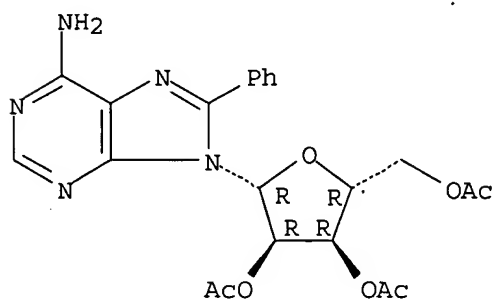
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(palladium-catalyzed C-alkenylation of purine nucleosides with organotins)

RN 172945-44-7 CAPLUS

CN Adenosine, 8-phenyl-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

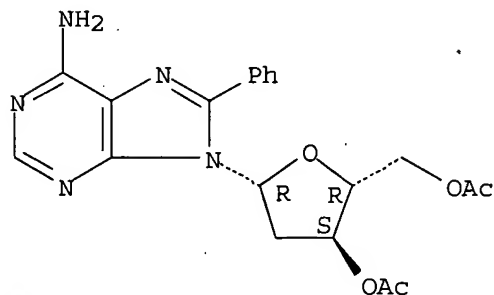
Absolute stereochemistry.



RN 172945-47-0 CAPLUS

CN Adenosine, 2'-deoxy-8-phenyl-, 3',5'-diacetate (9CI) (CA INDEX NAME)

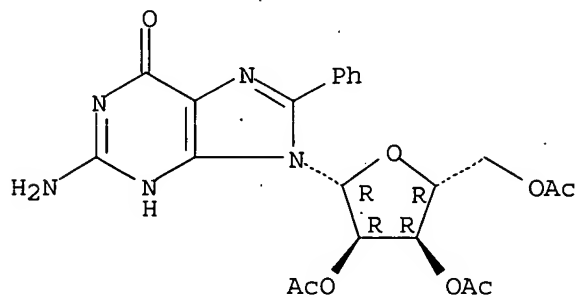
Absolute stereochemistry.



RN 172945-50-5 CAPLUS

CN Guanosine, 8-phenyl-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

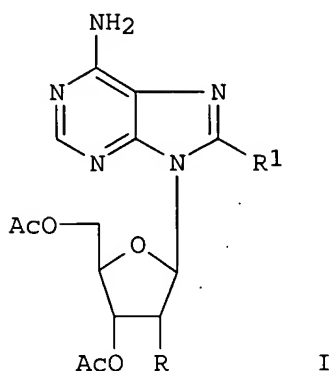
Absolute stereochemistry.



GI

Patel

&lt;6/21/2003&gt;



AB Palladium-catalyzed C-alkenylation of nucleosides, e.g. I (R = H, OAc, R1 = Br), with organotin R1SnR23 [R1 = Ph, CH2:CH, CH2:C(OEt), R2 = Me, Bu] gave the corresponding I [R = H, OAc, R1 = Ph, CH2:CH, CH2:C(OEt)] in good yields.

L4 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1995:897904 CAPLUS

DN 124:117836

TI Palladium catalysis in the synthesis of 8-position modified adenosine, 2'-deoxyadenosine and guanosine

AU Tu, Chi; Keane, Charlene; Eaton, Bruce E.

CS Medicinal Chemistry Department, Nexagen, Inc., Boulder, CO, 80301, USA

SO Nucleosides & Nucleotides (1995), 14(8), 1631-8

CODEN: NUNUD5; ISSN: 0732-8311

PB Dekker

DT Journal

LA English

OS CASREACT 124:117836

IT 172945-44-7P 172945-47-0P 172945-50-5P

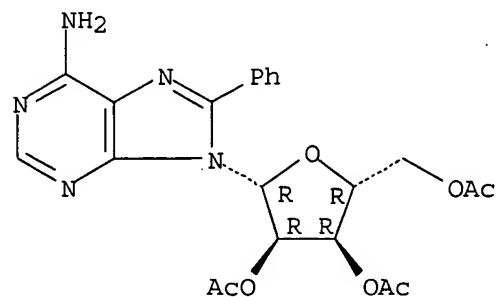
RL: SPN (Synthetic preparation); PREP (Preparation)

(palladium catalysis in synthesis of 8-position modified vinyl and aryl nucleosides)

RN 172945-44-7 CAPLUS

CN Adenosine, 8-phenyl-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

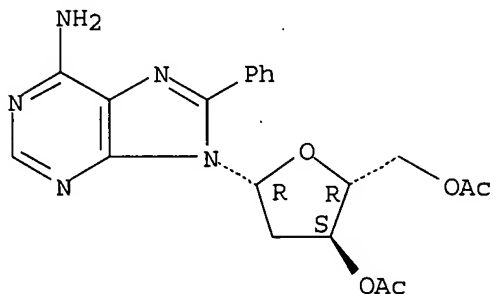
Absolute stereochemistry.



RN 172945-47-0 CAPLUS

CN Adenosine, 2'-deoxy-8-phenyl-, 3',5'-diacetate (9CI) (CA INDEX NAME)

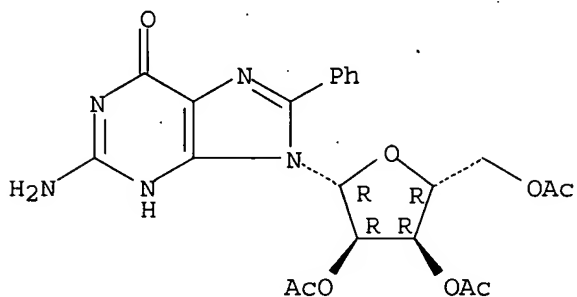
Absolute stereochemistry.



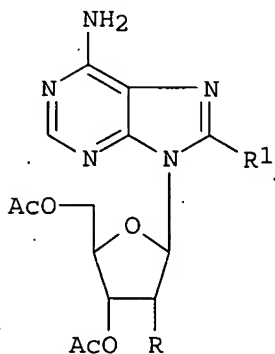
RN 172945-50-5 CAPLUS

CN Guanosine, 8-phenyl-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



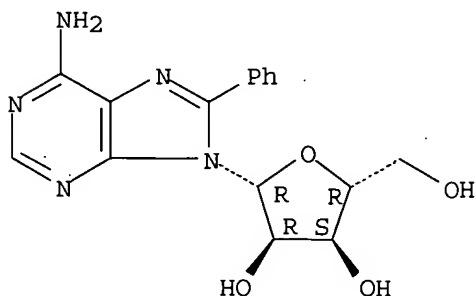
AB Adenosine and guanosine analogs with 8-position vinyl and aryl groups, e.g. I [R = H, OAc, R1 = Ph, CH:CH2, C(OEt):CH2], were prepd. by palladium catalyzed cross-coupling of organostannanes with 8-bromopurine nucleosides. The reaction conditions and catalyst compn. were improved so



that both vinyl and aryl modifications could be made by a general procedure.

L4 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2003 ACS  
 AN 1995:739235 CAPLUS  
 DN 123:187709  
 TI 8-Substituted adenosine and theophylline-7-riboside analogs as potential partial agonists for the adenosine A1 receptor  
 AU Van der Wenden, Eleonora M.; Hartog-Witte, Helen R.; Roelen, Harlof C. P. F.; von Frijtag Drabbe Kuenzel, Jacobien K.; Pirovano, Irene M.; Mathot, Ron A. A.; Danhof, Meindert; Van Aerschot, Arthur; Lidaks, Margeris J.; et al.  
 CS Division of Medicinal Chemistry, Leiden-Amsterdam Center for Drug Research, Leiden University, P.O. Box 9502, RA Leiden, 2300, Neth.  
 SO European Journal of Pharmacology, Molecular Pharmacology Section (1995), 290(3), 189-99  
 CODEN: EJPPET; ISSN: 0922-4106  
 PB Elsevier  
 DT Journal  
 LA English  
 IT 73340-78-0  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
 (structure activity of 8-substituted adenosine- and theophylline ribosides as A1 and A2A agonists)  
 RN 73340-78-0 CAPLUS  
 CN Adenosine, 8-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

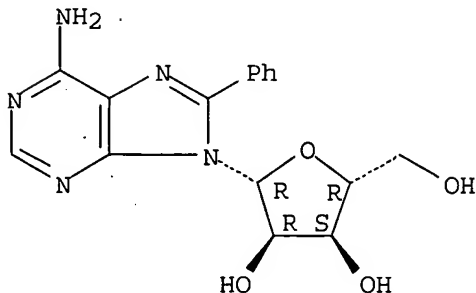


AB A series of 8-substituted adenosine and theophylline-7-riboside analogs (28 and 9 compds., resp.) was tested on adenosine A1 and A2A receptors as an extensive exploration of the adenosine C8-region. Alkylamino substituents at the 8-position cause an affinity decrease for adenosine analogs, but an affinity increase for theophylline-7-riboside derivs. The affinity decrease is probably due to a direct steric hindrance between the C8-substituent and the binding site as well as to electronic effects, not to a steric influence on the ribose moiety to adopt the anti conformation. The 8-substituents increase the affinity of theophylline-7-riboside analogs probably by binding to a lipophilic binding site. The intrinsic activity was tested in vitro for some 8-substituted adenosine analogs, by detg. the GTP shift in receptor binding studies and the inhibition of adenylate cyclase in a culture of rat thyroid FRTL-5 cells, and in vivo in the rat cardiovascular system for 8-butylaminoadenosine. Thus, it was shown that 8-ethyl-, 8-butyl-, and 8-pentylamino substituted analogs of adenosine may be partial agonists in vitro, and that 8-butylaminoadenosine

is a partial agonist for the rat cardiovascular A1 receptor in vivo.

L4 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2003 ACS  
 AN 1994:645130 CAPLUS  
 DN 121:245130  
 TI Selective Inhibition of Trypanosomal Glyceraldehyde-3-phosphate  
 Dehydrogenase by Protein Structure-Based Design: Toward New Drugs for the  
 Treatment of Sleeping Sickness  
 AU Verlinde, Christophe L. M. J.; Callens, Mia; Van Calenbergh, Serge; Van  
 Aerschot, Arthur; Herdewijn, Piet; Hannaert, Veronique; Michels, Paul A.  
 M.; Oppendoes, Fred R.; Hol, Wim G. J.  
 CS School of Medicine, University of Washington, Seattle, WA, 98195, USA  
 SO Journal of Medicinal Chemistry (1994), 37(21), 3605-13  
 CODEN: JMCMAR; ISSN: 0022-2623  
 DT Journal  
 LA English  
 IT **73340-78-0P**, 8-Phenyladenosine  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological  
 study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (protein structure-based design of selective inhibition of  
 glyceraldehyde phosphate dehydrogenase complexes of humans and  
 Trypanosoma brucei in treatment of sleeping sickness)  
 RN 73340-78-0 CAPLUS  
 CN Adenosine, 8-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Within the framework of a project aimed at rational design of drugs  
 against diseases caused by trypanosomes and related hemoflagellate  
 parasites, selective inhibitors of trypanosomal glycolysis were designed,  
 synthesized, and tested. The design was based upon the crystallog. detd.  
 structures of the NAD:glyceraldehyde-3-phosphate dehydrogenase complexes  
 of humans and Trypanosoma brucei, the causative agent of sleeping  
 sickness. After one design cycle, using the adenosine part of the NAD  
 cofactor as a lead, the following encouraging results were obtained: (1) a  
 2-Me substitution, targeted at a small pocket near Val 36, improves  
 inhibition of the parasite enzyme 12.5-fold; (2) an 8-(thien-2-yl)  
 substitution, aimed at Leu 112 of the parasite enzyme, where the equiv.  
 residue in the mammalian enzyme is Val 100, results in a 167-fold better  
 inhibition of the trypanosomal enzyme, while the inhibition of the human  
 enzyme is improved only 13-fold; (3) exploitation of a "selectivity cleft"  
 created by a unique backbone conformation in the trypanosomal enzyme near  
 the adenosine ribose yields a considerable improvement in selectivity:  
 2'-deoxy-2'-(3-methoxybenzamido)adenosine inhibits the human enzyme only

marginally but enhances inhibition of the parasite enzyme 45-fold when compared with adenosine. The designed inhibitors are not only better inhibitors of *T. brucei* GAPDH but also of the enzyme from *Leishmania mexicana*.

L4 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1992:506100 CAPLUS

DN 117:106100

TI Substitution of p- and o-hydroxyphenyl radicals at the 8-position of purine nucleosides by reaction with mutagenic p- and o-diazoquinones

AU Kikugawa, Kiyomi; Kato, Tetsuta; Kojima, Kazuhiro

CS Tokyo Coll. Pharm., Hachioji, 192-03, Japan

SO Mutation Research (1992), 268(1), 65-75

CODEN: MUREAV; ISSN: 0027-5107

DT Journal

LA English

IT 143084-41-7

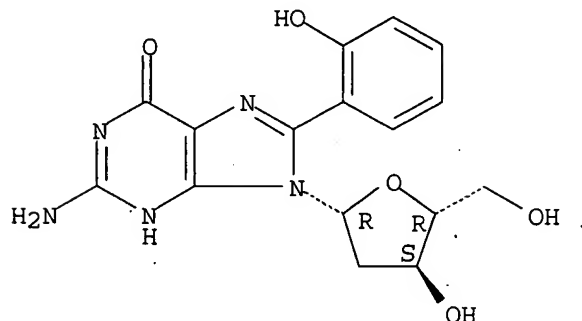
RL: BIOL (Biological study)

(as diazoquinone reaction product, mutagenicity in relation to)

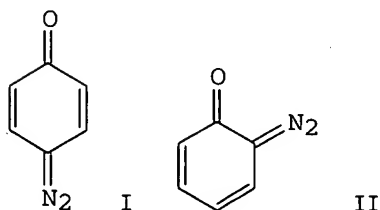
RN 143084-41-7 CAPLUS

CN Guanosine, 2'-deoxy-8-(2-hydroxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



AB Incubation of 2'-deoxyadenosine (dAdo), 2'-deoxyguanosine (dGuo), adenosine, guanosine (Guo), thymidine, and deoxycytidine with p- and o-diazoquinones [pD (I) and oD (II), resp.], mutagens produced by the reaction of phenol and nitrate, at pH 7 and 37.degree. resulted in a decrease in each nucleoside depending upon the concn. of the diazoquinones. The pD-dAdo, pD-dGuo, and pD-Guo were isolated from the reaction mixts. of dAdo, dGuo, and Guo, resp., with p-diazoquinone at pH 9.5, and oD-dGuo was isolated from the mixt. of dGuo and o-diazoquinone at

pH 9.5. The products were identified as 8-(p-hydroxyphenyl)- and 8-(o-hydroxyphenyl)-purine nucleosides by  $^1\text{H}$ - and  $^{13}\text{C}$ -NMR spectra, secondary ion mass spectrum, UV absorption spectrum, and elemental anal. p- And o-diazoquinones may be converted into p- and o-hydroxyphenyl radicals, resp., which in turn attack the 8 position of the purine nucleosides. The mutagenicity of these diazoquinones may be partly due to the radical reactions.

L4 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1990:514920 CAPLUS

DN 113:114920

TI Purines. IX. Reaction of 9-phenyl-9H-purine-2-carbonitriles with Grignard reagents

AU Tanji, Kenichi; Higashino, Takeo

CS Sch. Pharm. Sci., Univ. Shizuoka, Shizuoka, 422, Japan

SO Heterocycles (1990), 30(1, Spec. Issue), 435-40

CODEN: HTCYAM; ISSN: 0385-5414

DT Journal

LA English

OS CASREACT 113:114920

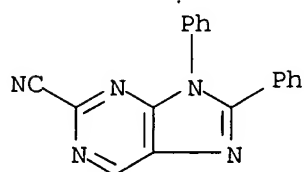
IT 129006-37-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, with Grignard reagents)

RN 129006-37-7 CAPLUS

CN 9H-Purine-2-carbonitrile, 8,9-diphenyl- (9CI) (CA INDEX NAME)



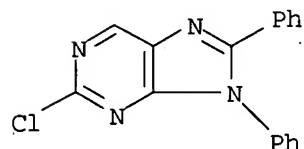
IT 129006-33-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, with cyanide)

RN 129006-33-3 CAPLUS

CN 9H-Purine, 2-chloro-8,9-diphenyl- (9CI) (CA INDEX NAME)

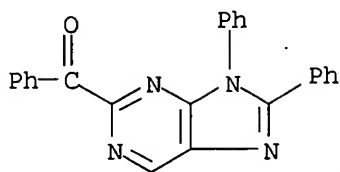


IT 129006-43-5P 129006-44-6P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

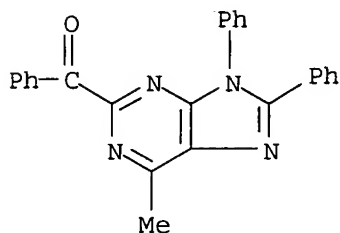
RN 129006-43-5 CAPLUS

CN Methanone, (8,9-diphenyl-9H-purin-2-yl)phenyl- (9CI) (CA INDEX NAME)

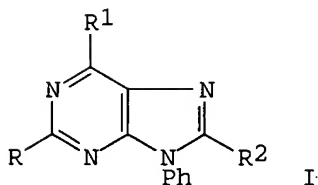


RN 129006-44-6 CAPLUS

CN Methanone, (6-methyl-8,9-diphenyl-9H-purin-2-yl)phenyl- (9CI) (CA INDEX NAME)



GI



AB The Pd-catalyzed cross-coupling reaction of chlorophenylpurines I (R = Cl, R1 = H, Me, R2 = H, Ph; R = H, Me, R1 = Cl, R2 = H, Ph) with KCN proceeded to give purinecarbonitriles I (R = cyano, R1 = H, Me, R2 = H, Ph; R = H, Me, R1 = cyano, R2 = H, Ph). The conversion of I (R = cyano) into I (R = Ac, COEt, Bz) was achieved by treatment with Grignard reagents.

L4 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1990:458784 CAPLUS

DN 113:58784

TI Purine derivatives as competitive inhibitors of human erythrocyte membrane phosphatidylinositol 4-kinase

AU Young, Rodney C.; Jones, Martin; Milliner, Kevin J.; Rana, Kishore K.; Ward, John G.

CS Smith Kline and French Res. Ltd., Welwyn/Hertfordshire, AL6 9AR, UK

SO Journal of Medicinal Chemistry (1990), 33(8), 2073-80

CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LA English

OS CASREACT 113:58784

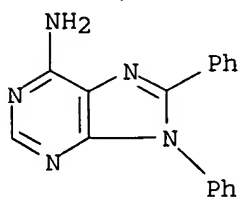
IT 127820-25-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and phosphatidylinositol 4-kinase inhibition by)

RN 127820-25-1 CAPLUS

CN 9H-Purin-6-amine, 8,9-diphenyl- (9CI) (CA INDEX NAME)



AB The possibility of deriving a potent, cell-penetrating inhibitor of human erythrocyte phosphatidylinositol 4-kinase, competitive with respect to ATP, has been investigated in a series of purine derivs. and analogs. The purine nucleus is not essential for binding to the ATP site but offers the advantage of synthetic accessibility to its derivs. The optimum substitution pattern in purine consisted of an electron-releasing substituent in the 6-position (e.g. amino, as in adenine) and a compact, lipophilic group in either the 8-position or, preferably, the 9-position, suggesting the importance of the N-1 lone pair and hydrophobic contributions of the 8- and 9-substituents to binding. The most potent inhibitor synthesized was 9-cyclohexyladenine, which has an apparent  $K_i$  value of 3.7  $\mu\text{M}$ .

L4 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1982:52623 CAPLUS

DN 96:52623

TI Reactions of benzenediazonium ions with guanine and its derivatives

AU Hung, Ming Hong; Stock, Leon M.

CS Dep. Chem., Univ. Chicago, Chicago, IL, 60637, USA

SO Journal of Organic Chemistry (1982), 47(3), 448-53

CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English

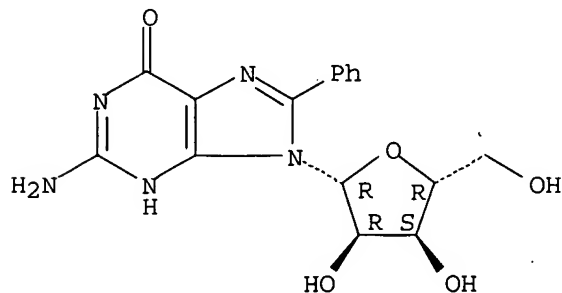
IT 79953-03-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and hydrolysis of)

RN 79953-03-0 CAPLUS

CN Guanosine, 8-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Guanine reacts with several benzenediazonium ions rapidly in aq. soln. at

pH 10.5 to form 8-(arylo)guanines in good yield. The reaction of guanine with 4-bromobenzenediazonium ion forms 8-[(4-bromophenyl)azo]guanine about 50-fold more rapidly than the reaction of adenine with this ion to yield 6-[3-(4-bromophenyl)-2-triazene-1-yl]purine under these exptl. conditions. Guanosine reacts much more slowly than guanine with the benzenediazonium ions in aq. soln. at pH 8.5 or 10.5 to give 8-arylguanosines. The structures of these products were established by their spectroscopic properties and by their quant. conversion to 8-arylguanines. 5'-Guanylic acid also reacts quite slowly with the benzenediazonium ions in aq. soln. at pH 10.5. Only the compds. with strong electron-withdrawing groups yield N-2 triazenes at ambient temp. No 8-aryl or 8-arylo compds. are formed with 5'-guanylic acid at this temp. However, 4-bromo- and 4-sulfobenzenediazonium ions react with 5'-guanylic acid at higher temps. to yield the 8-aryl-5'-guanylic acids in low yield. The structures of these products were proven by hydrolysis to 8-arylguanines. The 8-arylguanosines and the 8-aryl-5'-guanylic acids are formed via free-radical phenylation reactions. The factors governing the reactivity of the adenines and the guanines are discussed.

L4 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1980:164214 CAPLUS

DN 92:164214

TI Modification of position 8 of purine nucleosides and of adenosine 3',5'-cyclic monophosphate. Catalytic coupling reactions of organomagnesiums with 8-bromopurine riboside and 8-bromoadenosine 3',5'-cyclic monophosphate silyl derivatives in the presence of dichlorobis(triphenylphosphine)palladium

AU Nguyen Cong-Danh; Beaucourt, Jean Pierre; Pichat, Louis

CS Servi. Mol. Marquees, CEN-Saclay, Gif-sur-Yvette, F91190, Fr.

SO Tetrahedron Letters (1979), (34), 3159-62

CODEN: TELEAY; ISSN: 0040-4039

DT Journal

LA French

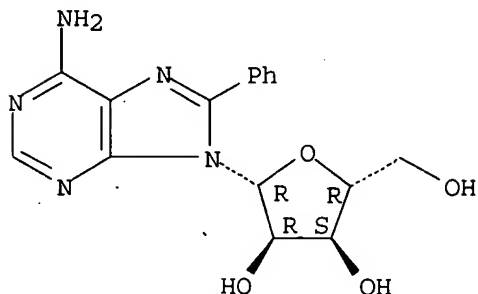
IT 73340-78-0P 73340-84-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and silylation of)

RN 73340-78-0 CAPLUS

CN Adenosine, 8-phenyl- (9CI) (CA INDEX NAME)

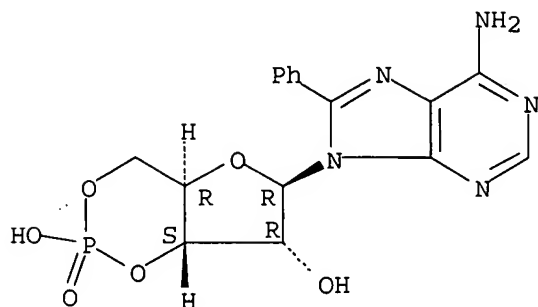
Absolute stereochemistry.



RN 73340-84-8 CAPLUS

CN Adenosine, 8-phenyl-, cyclic 3',5'-(hydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



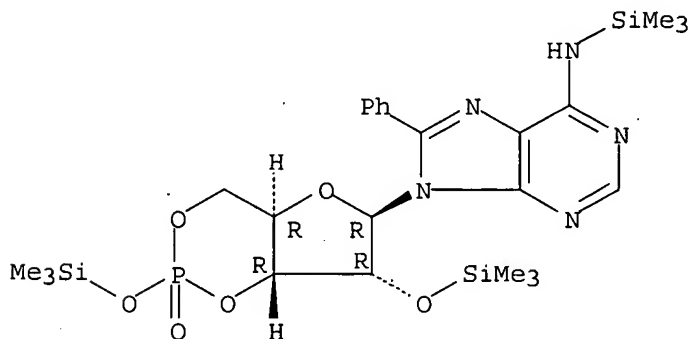
IT 73340-93-9P 73340-94-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 73340-93-9 CAPLUS

CN Adenosine, 8-phenyl-N-(trimethylsilyl)-2'-O-(trimethylsilyl)-, cyclic  
3',5'-(trimethylsilyl phosphate) (9CI) (CA INDEX NAME)

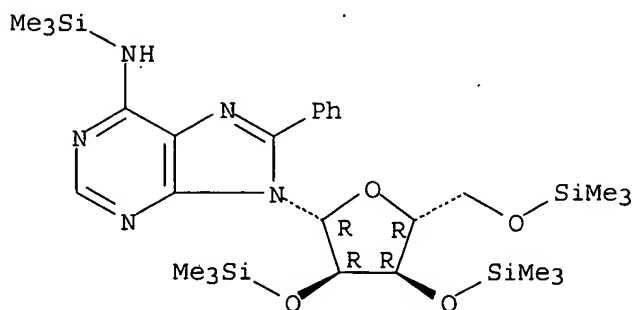
Absolute stereochemistry.



RN 73340-94-0 CAPLUS

CN Adenosine, 8-phenyl-N-(trimethylsilyl)-2',3',5'-tris-O-(trimethylsilyl)-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

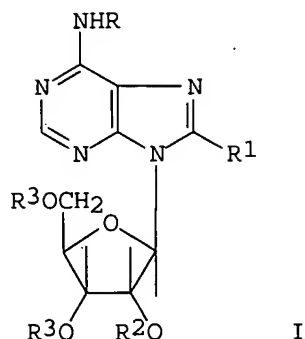


GI

Patel

&lt;6/21/2003&gt;





AB Pd catalyzed condensation of Grignard reagents with silyl derivs. of 8-bromoadenosine 3'5'-cyclic monophosphate is a convenient method for the prepn. of the corresponding 8-alkyl derivs. E.g., condensation of the purine I (R = R2 = R3 = SiMe3, R1 = Br) with CH2:CHCH2MgCl in THF, in the presence of (Ph3P)2PdCl2 gave, after hydrolysis, 35% I (R = R2 = R3 = H, R1 = CH2CH:CH2). Similar treatment of the cyclic phosphate I [R = R2 = SiMe3, R1 = Br, R32 = P(O)SiMe3] gave 30% I [R = R2 = H, R1 = CH2CH:CH2, R32 = P(O)OH]. In the latter reaction, changing the catalyst to Pd(PPh3)4 or (Ph3P)2NiCl2 had little effect on product yield.

L4 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2003 ACS

AN 1972:22084 CAPLUS

DN 76:22084

TI Reactions of carcinogens with guanine nucleotides

AU Hoffmann, Hans Dieter; Mueller, W.

CS Org.-Chem. Inst., Univ. Goettingen, Goettingen, Fed. Rep. Ger.

SO Phys.-Chem. Mech. Carcinog., Proc. Int. Symp. (1969), Meeting Date 1968, 183-7. Editor(s): Bergmann, E. D. Publisher: Isr. Acad. Sci. Hum., Jerusalem, Israel.

CODEN: 23XJAP

DT Conference

LA English

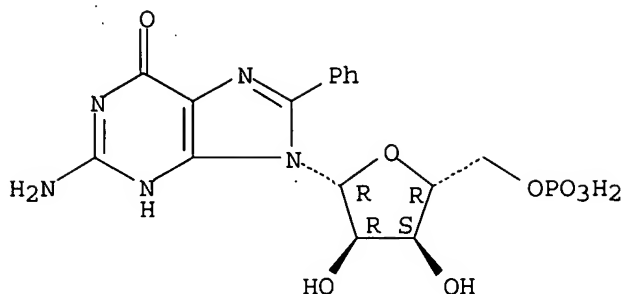
IT 35058-93-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 35058-93-6 CAPLUS

CN 5'-Guanylic acid, 8-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Direct arylation of C-8 of guanine nucleotides was achieved by reaction with hydrocarbon radicals. X-irradn. of a DNA soln. satd. with benzo[a]pyrene yielded 8-benzo[a]pyrenylguanine. 5'-GMP and phenyldimethyltriazene gave 8-phenylguanosine 5'-phosphate. Reaction of DNA with the hydroxylamino free radical of nitroquinoline N-oxide followed by hydrolysis by DNase gave the same product as the direct reaction of the guanine nucleotide, but the quinoline-substituted guanine was not synthesized. Such modifications of DNA may hinder the binding of repressor mols.

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SINCE FILE	TOTAL
ENTRY	SESSION
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9 ANSWERS

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BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 4215 TO 6145  
PROJECTED ANSWERS: 9 TO 360

L5 9 SEA SSS SAM L1

L6 0 L5